CDX-805

SERVICE MANUAL

Ver 1.1 2001.08

US Model
Canadian Model
AEP Model
UK Model
E Model

Photo: Except US model

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-250A-137
Optical Pick-up Name	KSS-521A/J2RP

SPECIFICATIONS

System Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: Continuous
Laser Output Power: Less than 44.6 µW*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency respones
5–20,000 Hz
Wow and flutter Below the measurable limit
Signal-to-noise ratio
99 dB
Outputs Optical digital output
BUS control output (8 PIN)
Analog audio output (RCA PIN)
Current drain 800 mA (during CD playback)
800 mA (during loading or ejecting a disc)
Operating temperature
–10°C to +55°C (14°F to 131°F)
Dimensions Approx. 262 × 90 × 181.5 mm ($10^{3}/_{8} \times 3^{5}/_{8} \times 7^{1}/_{4}$ in.) (w/h/d) not incl. projecting parts and controls
Mass Approx. 2.1 kg (4 lb. 10 oz.)
Power requirement
12V DC car battery (negative ground)
Supplied accessories
Disc magazine (1)
Parts for installation and connections (1 set)
Design and specifications subject to change without notice.

COMPACT DISC CHANGER

9-925-522-12
2001H0500-1
© 2001.8

Sony Corporation
e Vehicle Company
Shinagawa Tec Service Manual Production Group

SONY®

TABLE OF CONTENTS

1. GENERAL
Installation 4
Connections 5

2. DISASSEMBLY 7

3. ELECTRICAL ADJUSTMENTS 13

4. DIAGRAMS
4-1. Block Diagram 15
4-2. Printed Wiring Board – RF Section – 17
4-3. Schematic Diagram – RF Section – 19
4-4. Schematic Diagram – MAIN Section – 23
4-5. Printed Wiring Board – MAIN Section – 27
4-6. IC Pin Function Description 35

5. EXPLODED VIEWS 38

6. ELECTRICAL PARTS LIST 43

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

Laser Diode Properites
- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 µW*
  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing
- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

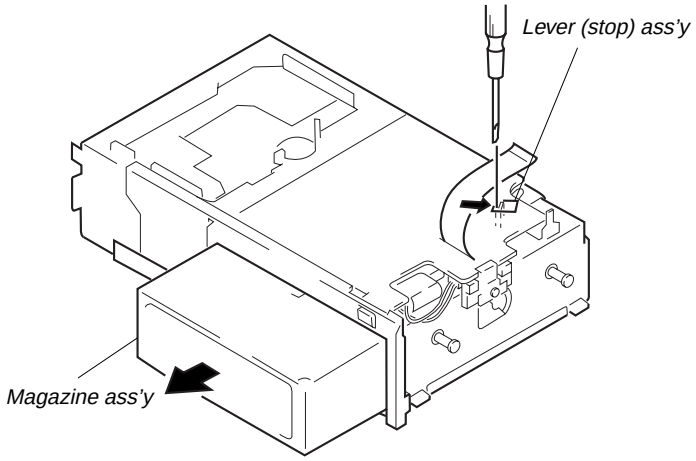
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

DISC MAGAZINE GETTING OUT PROCEDURE ON THE POWER SUPPLY IS OFF

Remove the CASE (LOWER) assembly beforehand

1) Press the lever (stop) assy to arrow direction.
2) Removal the magazine assy.

Note: Take out the magazine only when the tray is completely within the magazine. If the disk or tray is sticking out, turn on the power and eject the magazine.



This section is extracted from instruction manual.

SECTION 1
GENERAL

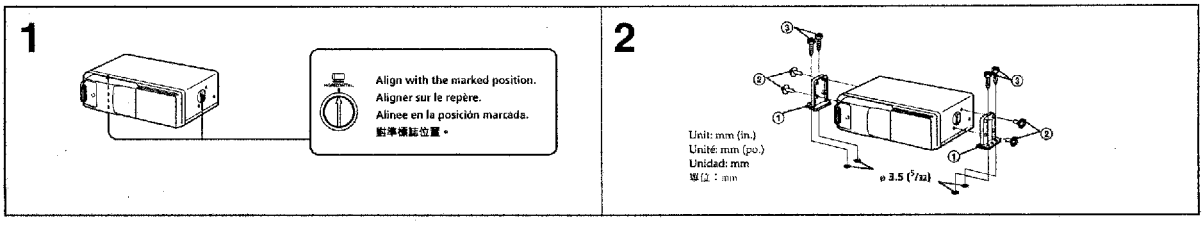
Installation

Precautions

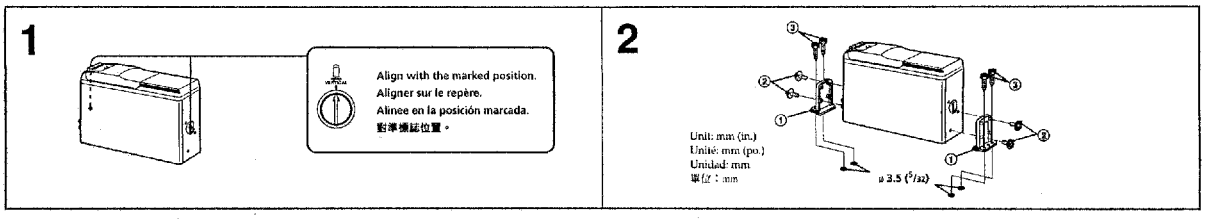
- Choose the mounting location carefully, observing the following:
  - The unit is not subject to temperatures exceeding 55°C (131°F) (such as in a car parked in direct sunlight).
  - The unit is not subject to direct sunlight.
  - The unit is not near heat sources (such as heaters).
  - The unit is not exposed to rain or moisture.
  - The unit is not exposed to excessive dust or dirt.
  - The unit is not subject to excessive vibration.
  - The fuel tank should not be damaged by the tapping screws.
  - There should be no wire harnesses or pipes under the place where you are going to install the unit.
  - The spare tire, tools or other equipment in or under the trunk should not be interfered with or damaged by the screws or the unit itself.
- Be sure to use only the supplied mounting hardware for a safe and secure installation.
- Use only the supplied screws.

How to install the unit

Horizontal installation



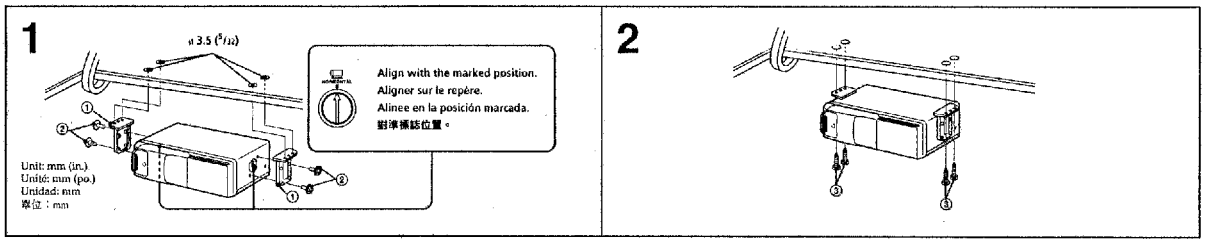
Vertical installation



Suspended installation

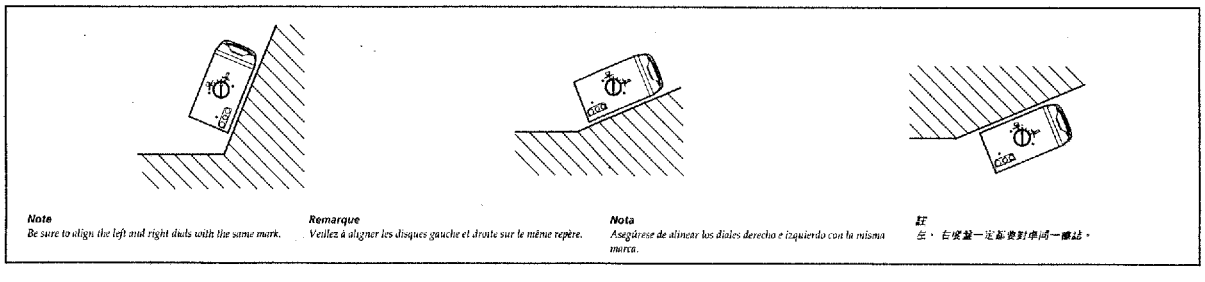
When the unit is to be installed under the rear tray etc. in the trunk compartment, make sure the following provisions are made.

- Choose the mounting location carefully so the unit can be installed horizontally.
- Make sure the unit does not hinder the movement of the torsion bar spring etc. of the trunk lid.



Inclined installation

After installing the unit, align the dials with one of the marks so the arrow comes as close to a vertical position as possible.



Note

Be sure to align the left and right dials with the same mark.

Installation

Précautions

- Choisir l'emplacement de montage en tenant compte des observations suivantes:
  - Appareil non soumis à des températures dépassant 55°C (131°F) (comme dans une voiture parquée au soleil).
  - Appareil non soumis au rayonnement solaire direct.
  - Appareil à l'écart de sources de chaleur (comme des radiateurs).
  - Appareil non exposé à la pluie ou à l'humidité.
  - Appareil non exposé à des poussières ou à des souillures en excès.
  - Appareil non exposé à des vibrations excessives.
  - Vérifier que le réservoir d'essence ne risque pas d'être endommagé par les vis taraudeuses.
  - Il ne doit pas y avoir de faisceau de fils ou de tuyaux à l'emplacement du montage.
  - Vérifier que l'appareil ou les vis ne risquent pas d'endommager ou de gêner la roue de secours, les outils, ou autre objet dans le coffre.
- Pour garantir la sécurité de l'installation, utiliser uniquement le matériel de montage fourni.
- Utiliser uniquement les vis fournies.

Installation de l'appareil

Installation horizontale

Installation verticale

Installation suspendue

Si l'appareil doit être installé sous la plage arrière dans le coffre par exemple, observer les précautions suivantes.

- Bien choisir l'emplacement pour pouvoir installer l'appareil à l'horizontale.
- Vérifier que l'appareil ne gêne pas les mouvements du ressort de fermeture du coffre, entre autres.

Installation inclinée

Après avoir installé l'appareil, alignez le disque sur l'un des repères afin que la flèche soit aussi proche que possible de la position verticale.

Remarque

Veillez à aligner les disques gauche et droite sur le même repère.

Instalación

Precauciones

- Elija cuidadosamente el lugar de montaje, teniendo en cuenta lo siguiente:
  - La unidad no queda sometida a temperaturas superiores a los 55°C (como en un automóvil aparcado a la luz solar directa).
  - La unidad no queda sometida a la luz solar directa.
  - La unidad no queda cercana a fuentes térmicas (como aparatos de calefacción).
  - La unidad no queda expuesta a la lluvia o a la humedad.
  - La unidad no queda expuesta a polvo o suciedad excesivos.
  - La unidad no queda sometida a vibraciones excesivas.
  - El depósito de combustible no deberá dañarse con los tornillos autorroscantes.
  - No deberá haber mazos de conductores ni tubos debajo del lugar donde vaya a instalar la unidad.
  - La rueda de repuesto, las herramientas, u otros equipos situados dentro o debajo del portaequipajes no deberán verse interferidos ni dañados por los tornillos ni por la propia unidad.
- Para realizar una instalación segura, emplee solamente la ferretería de montaje suministrada.
- Utilice sólo los tornillos suministrados.

Forma de instalar la unidad

Instalación horizontal

Instalación vertical

Instalación suspendida

Cuando desee instalar la unidad debajo de la bandeja trasera, etc. en el interior del portaequipajes, tenga en cuenta lo siguiente:

- Elija cuidadosamente el lugar de montaje de forma que la unidad pueda instalarse horizontalmente.
- Cerciórese de que la unidad no impida el movimiento del resorte de la barra de torsión, etc., de la tapa del portaequipajes.

Instalación sobre una superficie inclinada

Después de instalar la unidad, alinee los diales con una de las marcas, de forma que la flecha quede orientada en posición vertical tanto como sea posible.

Nota

Asegúrese de alinear los diales derecho e izquierdo con la misma marca.

安裝

使用前須注意

- 請全個下列各項仔細選擇安裝位置：
  - 機器不能遭受超過 55°C 的溫度（例如停駐於陽光下的汽車內）。
  - 機器不可直接照射到陽光。
  - 機器不可靠近熱源（例如加熱器等）。
  - 不要讓機器處雨中或潮濕處。
  - 別讓機器受到過度的震動。
  - 不要把機器放在多塵或污穢的地方。
  - 小心別讓攻絲螺釘傷了燃油箱。
  - 注意安裝機器位置下面不要有電線束或配管。
  - 行李箱中或下面的備胎，工具或其他設備的現存是，不要受到機器的安裝螺釘或機器本身的干擾或損傷。
- 為了安裝確實和安全，請僅使用附帶的安裝五金件。
- 僅使用附帶的螺絲釘。

如何安裝機器

水平安裝

豎直安裝

懸掛安裝

機器安裝在後行李箱托架下面等位置時，必須作好如下準備。

- 小心地選擇能水平地安裝機器的位置。
- 確認機器是否不會阻礙後行李箱蓋的扭桿彈簧等。

傾斜安裝

安裝好機器之後，請旋轉度盤對準標誌中的一個使箭頭盡可能呈垂直方向的位置。

註

左、右度盤一定都要對準同一標誌。

Connections

For details, refer to the Installation/ Connections manual of each product.

Connection diagram

Connexions

Pour plus de détails, consulter le manuel d'installation/connexions de chaque produit.

Schéma de connexions

Conexiones

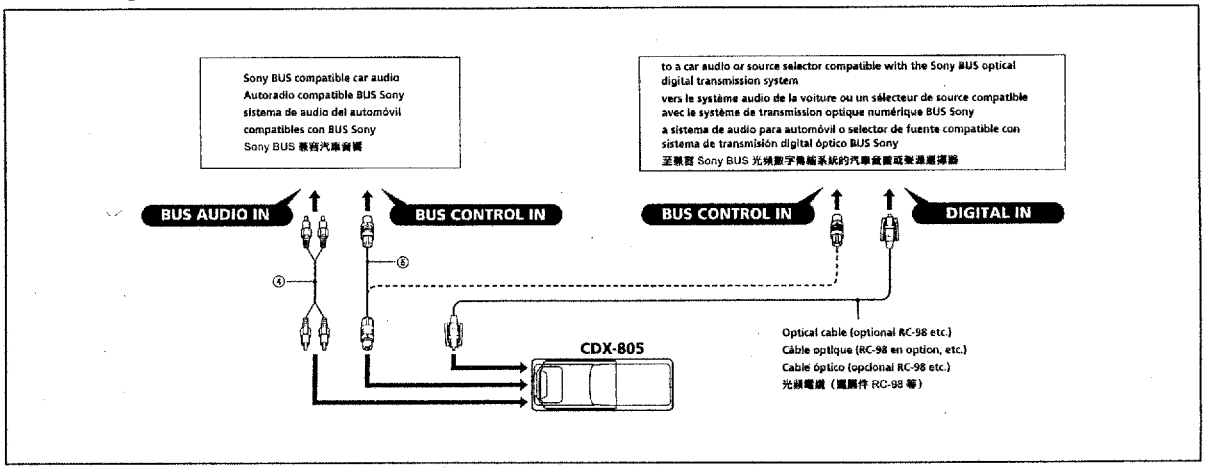
Con respecto a los detalles, consulte el manual de instalación/conexiones de cada producto.

Diagrama de conexiones

連接

詳細請參考各產品的安裝／連接說明。

接線圖


Sony BUS compatible car audio
Autoradio compatible BUS Sony
sistema de audio del automóvil compatibles con BUS Sony
Sony BUS 兼容汽車音響
to a car audio or source selector compatible with the Sony BUS optical digital transmission system
vers le système audio de la voiture ou un sélecteur de source compatible avec le système de transmission optique numérique BUS Sony
a sistema de audio para automóvil o selector de fuente compatible con sistema de transmisión digital óptico BUS Sony
至兼容 Sony BUS 光纖數字傳輸系統的汽車音響或聲源選擇器
BUS AUDIO IN
BUS CONTROL IN
BUS CONTROL IN
DIGITAL IN
CDX-805
Optical cable (optional RC-98 etc.)
Câble optique (RC-98 en option, etc.)
Cable óptico (opcional RC-98 etc.)
光纖電纜（選購件 RC-98 等）

Connecting the optional optical cable

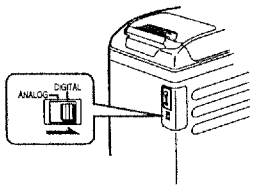
Connexion du câble optique en option

Conexión de un cable óptico

連接選購件的光頻電纜

1

Set the DIGITAL/ANALOG switch on the side of the CD changer to DIGITAL.
Mettre le commutateur DIGITAL/ANALOG sur le côté du changeur de CD sur DIGITAL.
Ajuste el selector DIGITAL/ANALOG, situado en la parte posterior del cambiador de discos compactos, en la posición DIGITAL.
將在 CD 換碟器側的 DIGITAL/ANALOG（數字／類比）開關設定於 DIGITAL。



After changing the position of the switch, be sure to press the reset button on the main unit.

Après avoir modifié la position du commutateur, veiller à appuyer sur la touche de réinitialisation de l'appareil principal.

Una vez cambiada la posición del selector, asegúrese de presionar el botón de reposición de la unidad principal.

切換了開關位置之後，一定要按下主機上的重調按鈕。

Notes
- *This switch is factory-set to the ANALOG position.*
- *Improper setting of the switch may prevent any sound from being reproduced even when the CD changer is activated.*

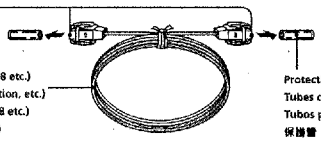
Remarques
- *Ce sélecteur est préréglé en usine sur la position ANALOG (analogique).*
- *Un réglage incorrect du sélecteur peut empêcher la reproduction du son même quand le changeur de CD fonctionne.*

Notas
- *Este selector ha sido ajustado en fábrica a ANALOG.*
- *El ajuste inadecuado del selector podría impedir la reproducción de sonido incluso aunque el cambiador de discos compactos estuviese activado.*

註
- *本開關的工廠設定值為在 ANALOG（類比）位置。*
- *開關型式設定不對，即使已啟動（打開）了 CD 換碟器，仍可能不能再現任何聲音。*

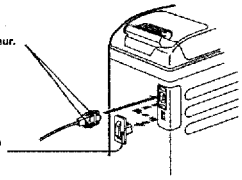
2

Do not touch the coupler parts.
Ne pas toucher les pièces du coupleur.
No toque las partes de acoplamiento.
不要接觸連接器部分。


Optical cable (optional RC-98 etc.)
Câble optique (RC-98 en option, etc.)
Cable óptico (opcional RC-98 etc.)
光纖電纜（選購件 RC-98 等）
Protective tubes (to be removed)
Tubes de protection (à enlever)
Tubos protectores (a quitar)
保護管（須移除）

3

Remove the protective cap, and firmly plug in the connector.
Retirez le bouchon de protection et enfichez correctement le connecteur.
Retire la tapa protectora y enchufe firmemente el conector.
移除保護罩裸露地插到接頭上。



Notes
- *When you wish to disconnect the cable, simply push in on both sides of the connector.*
- *Be sure to keep the protective cap in a safe place for future use.*

Remarques
- *Pour débrancher le câble, appuyer simplement sur les deux côtés du connecteur.*
- *Garder le capuchon de protection dans un endroit sûr pour une utilisation ultérieure.*

Notas
- *Cuando desee desconectar el cable, simplemente presione ambos lados del conector.*
- *Asegúrese de guardar la tapa protectora en un lugar seguro para utilizarla en el futuro.*

註
- *要卸下連接電纜時，只要按下接頭的兩側。*
- *保護罩要妥為保存供將來使用。*

Notes on the optical cable
Observe the following when connecting the cable:
- *Do not bend the cable too much. If the bent part (arc) is less than 10 cm (4 in.) in diameter, sound may not be reproduced.*
- *Make sure the cable does not get compressed or constricted in any way by objects around it.*
- *Never let the coupler parts of the connectors get scratched or become contaminated with dirt.*
- *If this unit is not connected to a car audio compatible with the Sony BUS optical digital transmission system, reinstall the protective cap to its original position.*
- *Use an optical cable designed for Sony car audio systems.*
- *Not all optical cables can be used with this CD changer.*

Remarques sur le câble optique
Lors de la connexion du câble:
- *Ne pas forcer le câble en le pliant. Si la partie courbée (coude) fait moins de 10 cm (4 po.) de diamètre, il est possible que le son ne soit pas reproduit.*
- *Vérifier que le câble n'est pas coincé ou écrasé par des objets environnants.*
- *Protéger les pièces du coupleur des égratignures et de la saleté.*
- *Si cet appareil n'est pas raccordé à un autoradio compatible avec le système de transmission numérique optique BUS Sony digital, réinstaller le capuchon de protection dans sa position d'origine.*
- *Utilisez un câble optique conçu pour les systèmes audio pour voiture Sony.*
- *Tous les câbles optiques ne peuvent pas être utilisés avec ce changeur de CD.*

Notas sobre el cable óptico
Tenga en cuenta lo siguiente cuando conecte el cable:
- *No doble el cable excesivamente. Si el diámetro de la parte doblada (arco) es inferior a 10 cm, es posible que el sonido no se reproduzca.*
- *Compruebe que el cable no quede aprisionado por objetos que se encuentren a su alrededor.*
- *No deje nunca que las partes de acoplamiento de los conectores se rayen ni se ensucien.*
- *Si esta unidad no se conecta a un sistema de audio de automóvil compatible con el sistema de transmisión digital óptico BUS de Sony, vuelva a instalar la tapa protectora en su posición original.*
- *Utilice un cable óptico diseñado para los sistemas de audio para automóvil Sony.*
- *No todos los cables ópticos pueden utilizarse con este cambiador de discos compactos.*

光頻電纜須知
連接電纜時，請注意以下事項：
- 不要彎折過頭電纜。彎曲部分的曲率直徑小於 10 cm 時，聲音可能不能再現。
- 確認電纜沒有沒被周圍物體壓著。
- 別讓接頭的連接部分被刮傷或污染。
- 本機不連接於兼容 Sony BUS 光頻數字傳輸系統的汽車音響時，請將保護罩蓋到原位置上。
- 請用 Sony 汽車音響系統專用的光頻電纜。
- 本 CD 換碟器並不是所有光頻電纜都可以利用的。

Precautions

Moisture condensation

On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate properly. In this case, **remove the disc magazine and wait for about an hour until the moisture has evaporated.**

Précautions

Remarque sur la condensation d'humidité

Par temps pluvieux ou dans des régions très humides, de la condensation peut se former sur les lentilles à l'intérieur de l'appareil. Dans ce cas, l'appareil ne fonctionne pas correctement. **Retirez alors le chargeur de disques et attendez environ une heure jusqu'à ce que la condensation se soit évaporée.**

Precauciones

Condensación de humedad

En los días lluviosos o en zonas muy húmedas, puede condensarse humedad en las lentes del interior de la unidad. Si esto ocurre, ésta no funcionará correctamente. En este caso, **extraiga el cargador de discos y espere durante una hora aproximadamente hasta que la humedad se evapore.**

使用前須注意

濕氣冷凝

由天或在潮濕的地方，機器內部的透鏡上面可能發生濕氣冷凝。這種情況發生時，機器將不能正常運作。在這種情況下，**請取出唱碟匣，等候大約一個小時讓冷凝水分完全蒸發為止。**

Inserting a disc

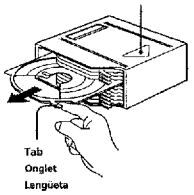
Insertion d'un disque

Inserción de discos

裝入一張唱碟

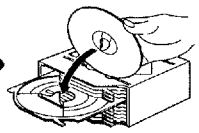
1

With the arrow side facing up
Avec la partie fléchée tournée vers le haut
Con el lado de la flecha hacia arriba
有箭頭標記的一面朝上



Tab
Onglet
Lengüeta
小翼

Labeled surface up
Etiquette vers le haut
Con la superficie de la etiqueta hacia arriba
貼標籤面朝上



10 discs, one in each tray
10 disques, un par plateau
10 discos, uno en cada bandeja
有 10 張唱碟，每一托盤裝一張

Notes

- *To listen to an 8 cm (3 in.) CD, use the separately sold Sony CD adapter CSA-8. Be sure to always use the specified adapter, as failing to do so may cause a malfunction of the unit. If you use any other adapter, the unit may not operate properly. When using the Sony CD adapter, make sure the three catches on the adapter are firmly latched onto the 8 cm CD.*
- *Do not insert the Sony CD adapter CSA-8 in the magazine without a disc, malfunction may result.*

Remarques

- *Pour écouter un disque de 8 cm (3 po.), utilisez l'adaptateur Sony CSA-8, vendu séparément, à l'exclusion de tout autre, pour éviter tout problème de fonctionnement. Si vous utilisez un autre adaptateur, l'appareil risque de ne pas fonctionner correctement. Quand vous utilisez l'adaptateur CD Sony, vérifiez que les trois griffes soient bien en prise sur le CD de 8 cm.*
- *Ne pas insérer d'adaptateur CD Sony CSA-8 dans le chargeur sans disque, car cela pourrait provoquer un dysfonctionnement.*

Notas

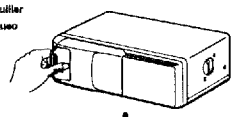
- *Para escuchar un disco compacto de 8 cm, utilice el adaptador de discos compactos Sony CSA-8, que podrá adquirir por separado. Asegúrese de utilizar siempre el adaptador especificado, ya que si utiliza otro tipo de adaptador es posible que la unidad no funcione correctamente. Al utilizar el adaptador de discos compactos Sony, asegúrese de que los tres enganches del adaptador están firmemente ajustados al disco compacto de 8 cm.*
- *No inserte el adaptador de discos compactos Sony CSA-8 en el cargador sin discos, ya que pueden producirse fallos de funcionamiento.*

註

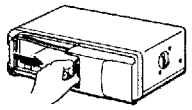
- *若聽 8cm（3 英寸）CD 時，請用另售的 Sony CD 轉接器 CSA-8。 必須使用指定的轉接器，否則將可能使機器故障。如果使用其他轉接器，機器將可能不能作正常的操作。使用 Sony 牌 CD 轉接器時，請確認轉接器上的 3 個鉤齊扣在機械蓋上的 8 cm CD。*
- *不要把 Sony CD 轉接器 CSA-8 裝入沒有唱碟的唱碟匣中。*

2

Unlock
Déverrouiller
Desbloqueo
打開

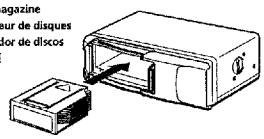


Release, and slide open.
Relâchez et coulissez pour ouvrir.
Suelte y deslice para abrir.
鬆放，滑開

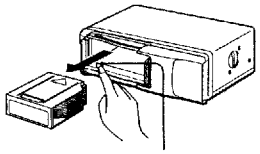


3

Disc magazine
Chargeur de disques
Cargador de discos
唱碟匣



To remove
Retrait
Extracción
取出



EJECT

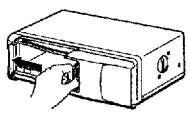
If the disc magazine does not lock properly
Take out the magazine, and after pressing the EJECT button, reinsert it.

Si vous ne pouvez pas fermer le chargeur de disques
Sortez le chargeur et, après avoir appuyé sur la touche EJECT, réinsérez-le.

Si el cargador de discos no se cierra correctamente
Extraiga el cargador, pulse el botón EJECT y vuelva a insertarlo.

如果唱碟匣沒有鎖定裝置
請取出唱碟匣，按下 EJECT 按鈕後再將它裝進去。

4



Use the unit with the door closed
Otherwise, foreign matter may enter the unit and contaminate the lenses inside the changer.

Utiliser cet appareil avec la trappe fermée
Sinon, des corps étrangers pourraient pénétrer dans l'appareil et encrasser les lentilles dans le lecteur.

Emplee la unidad con la puerta cerrada
De lo contrario podrían objetos extraños y contaminar las lentes del interior del cambiador.

請關上門使用機器
否則，會有雜物進入機器再影響機器內部的透鏡。

Note

When a disc magazine is inserted into the CD changer or the reset button of the connected car audio is pressed, the unit will automatically be activated and read the information on the CDs. When the information on all the CDs in the disc magazine has been read, the unit will automatically stop operation.

Remarque

Quand un chargeur de disques est inséré dans le changeur de CD ou si la touche de réinitialisation de l'autoradio raccordé est enclenchée, l'appareil se met automatiquement en marche et reproduit les CD. Lorsque tous les CD du chargeur ont été reproduits, l'appareil s'arrête automatiquement.

Nota

Cuando inserta un cargador de discos en el cambiador de discos compactos, o si está pulsado el botón de reposición del equipo de audio para automóvil conectado, la unidad se activará automáticamente y leerá la información de los discos compactos. Una vez leída la información de todos los discos compactos del cargador de discos, la unidad detendrá automáticamente la operación.

註

當把唱碟匣裝入 CD 機碟匣或按下了連接裝置的汽車音響的重調按鈕時，機器即將自動啟動（打開）並讀取 CD 上的資料。當機完唱碟匣中所有 CD 上的資料時，機器即將自動停止操作。

Notes on the disc magazine

- Do not leave the disc magazine in locations with high temperatures and high humidity such as on a car dashboard or in the rear window where the disc magazine will be subjected to direct sunlight.
- Do not place more than one disc at a time onto one tray, otherwise the changer and the discs may be damaged.
- Do not drop the disc magazine or subject it to a violent shock.

Remarques sur le chargeur de disques

- Ne pas laisser le chargeur de disques dans un endroit très chaud ou très humide comme sur le tableau de bord ou sur la plage arrière de la voiture où il serait en plein soleil.
- Ne pas insérer plus d'un disque à la fois sur le plateau, sinon le changeur et les disques risquent d'être endommagés.
- Ne pas laisser tomber le chargeur de disques ni le cogner.

Notas sobre el cargador de discos

- No lo deje en lugares muy húmedos o con temperaturas altas, como en el salpicadero del automóvil o en la ventanilla trasera, expuesto a la luz solar directa.
- No inserte más de un disco en una bandeja de una vez, ya que en caso contrario el cambiador y los discos pueden dañarse.
- No lo deje caer ni lo exponga a golpes violentos.

唱碟匣須知

- 不要把唱碟匣放置在高溫、高濕的地方，例如放在汽車儀錶板上或車後窗下等唱碟匣會直接會直接對陽光的地方。
- 一個托盤上不要同時裝放一張以上的唱碟。否則，可能會損壞機器和唱碟。
- 別讓唱碟匣掉落地上或受到強烈的衝擊。

When the tray comes out

Normally, the trays will not comes out of the magazine. However, if they are pulled out of the magazine, it is easy to re-insert them.

Lorsque le plateau sort

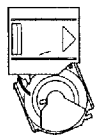
En principe, les plateaux ne sortent pas du chargeur. Toutefois, s'ils sortent du chargeur, il est facile de les réinsérer.

Si la bandeja se sale

Normalmente, las bandejas no se salen del cargador. No obstante, si esto ocurre, pueden volver a insertarse con facilidad.

脫出托盤時

通常，托盤是不會從唱碟匣中脫落的。但是萬一被拉出脫離唱碟匣，您可以很簡單地再把它裝回去的。



With the cut-away portion of the tray facing you, insert the right corner of the tray in the slot, then push in the left corner until it clicks.

Note

Do not insert the tray upside down or in the wrong direction.

Avec la portion découpée du plateau vous faisant face, insérer le coin droit du plateau dans la fente, puis enfoncer le coin gauche jusqu'au déclic.

Remarque

Ne pas insérer le plateau à l'envers ou dans le mauvais sens.

Con la parte de corte de la bandeja hacia afuera, inserte la esquina derecha de dicha bandeja en la ranura y, a continuación, ejerza presión en la esquina izquierda hasta oír un chasquido.

Nota

No inserte la bandeja al revés o en la dirección incorrecta.

讓托盤有缺口的一邊朝著自己方向將托盤右角插入槽中，然後壓入左角至聽見卡搭聲響。

註

裝插托盤時，切勿插反了或弄錯方向。

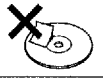
Notes on compact discs

This way
Oui
Así
正確

A dirty or defective disc may cause sound drop-outs during playback. To enjoy optimum sound, handle the disc as follows.

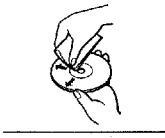
Handle the disc by its edge, and to keep the disc clean, do not touch the unlabeled surface.

Not this way
Non
Así no
不正確



Do not stick paper or tape on the disc.

Do not expose discs to direct sunlight or heat sources such as hot air-ducts. Do not leave discs in a car parked in direct sunlight where there can be a considerable rise in the temperature inside the car.



Remarques sur les disques compacts

Un disque sale ou défectueux peut provoquer des pertes de son à la lecture. Manipuler le disque comme suit pour obtenir un son optimal.

Manipuler le disque par son arête et le maintenir dans un état propre, ne pas le toucher sur la surface non imprimée.

Ne pas coller de papier ou de bande adhésive sur le disque.

Ne pas laisser les disques en plein soleil ou près d'une source de chaleur comme des conduits d'air chaud. Ne pas laisser les disques dans une voiture garée en plein soleil car la température de l'habitacle risque d'augmenter considérablement.

Notas sobre discos compactos

Es posible que se produzca ausencia de sonido durante la reproducción, si el disco está sucio o es defectuoso. Para disfrutar de una calidad de sonido óptima, utilice el disco de la siguiente forma.

Maneje el disco por los bordes. Para mantenerlo limpio, no toque la superficie sin etiqueta.

No adhiera papeles ni cinta sobre el disco.

No exponga los discos a la luz solar directa ni a fuentes térmicas, como conductos de aire caliente. No deje los discos en un automóvil aparcado bajo la luz solar directa donde pueda producirse un considerable aumento de temperatura en el interior de dicho automóvil.

雷射唱碟須知

唱碟髒了或變形，可能會在放音時產生無音放過現象。為獲得良好的音質錄音，請按照以下的建議正確地使用唱碟。

請拿唱碟邊緣以保持唱碟清潔，不要接觸沒貼標籤的唱面。

不要在唱碟上貼紙張或貼膠帶。

不要讓唱碟暴露於直射陽光下或熱氣管等熱源旁邊。也不要把唱碟放在停駐在炎陽下的汽車裏，這為那裏會有到很高的溫度。

Before playing, clean the discs with an optional cleaning cloth. Wipe each disc in the direction of the arrows.

Do not use solvents such as benzine, thinner, commercially available cleaners or antistatic spray intended for analog discs.

Avant la lecture, essuyer les disques avec un chiffon de nettoyage en option. Essuyer chaque disque dans le sens des flèches.

Ne pas utiliser de solvants tels que de la benzine, du diluant, de produits de nettoyage vendus dans le commerce ou de vaporisateurs anti-statiques destinés aux disques analogiques.

Antes de la reproducción, limpie los discos con un paño de limpieza opcional en la dirección de las flechas.

No utilice disolventes como bencina, diluyentes, productos de limpieza disponibles en tiendas del ramo ni aerosoles antiestáticos destinados a discos analógicos.

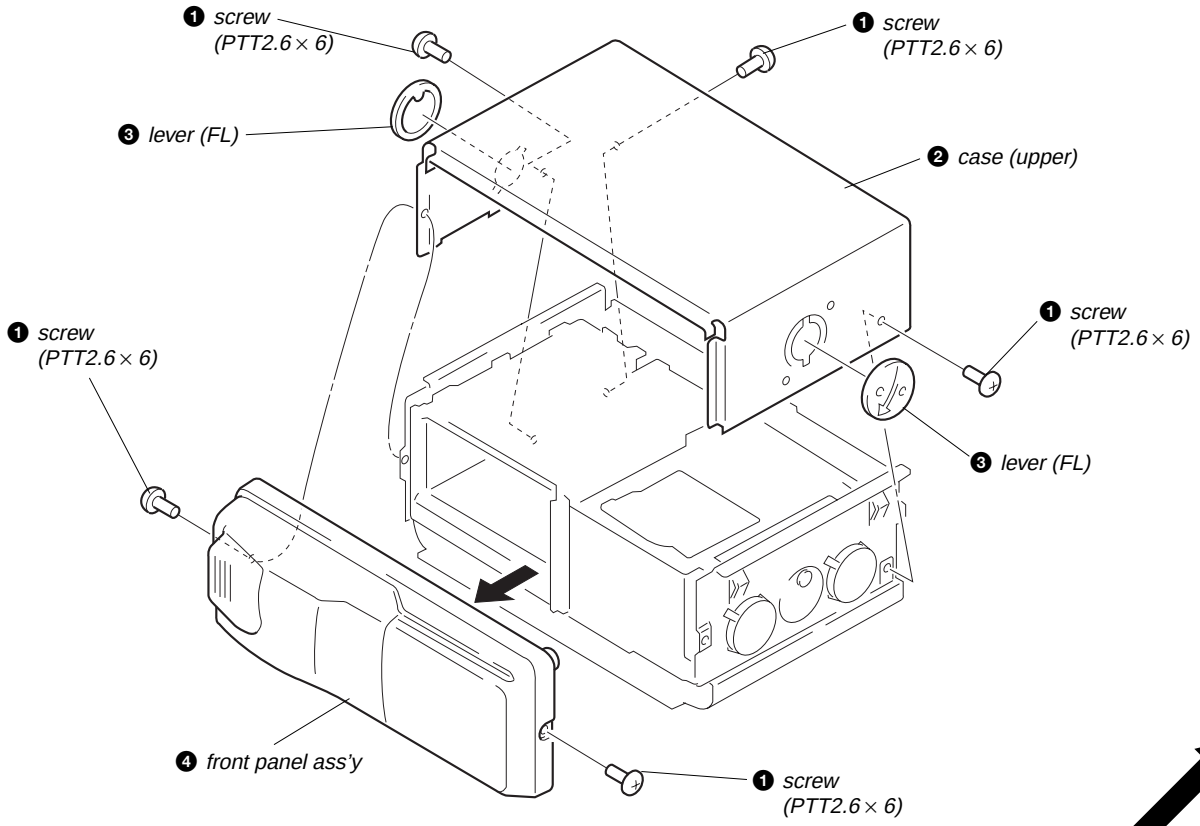
啟音前，請用選購件的清潔用布擦試每張唱碟。其擦拭方向請依箭頭所指方向擦拭。

不可利用油開，稀釋開，市售的清潔劑或類似式唱碟用的抗靜電噴射劑等溶劑清潔唱碟。

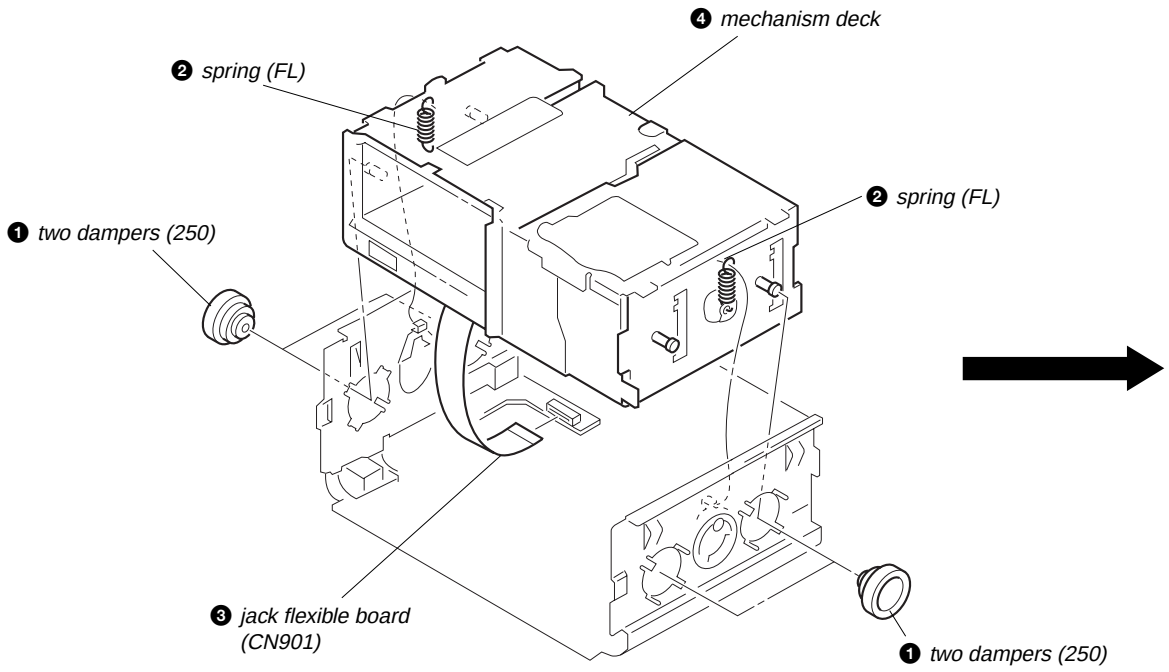
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

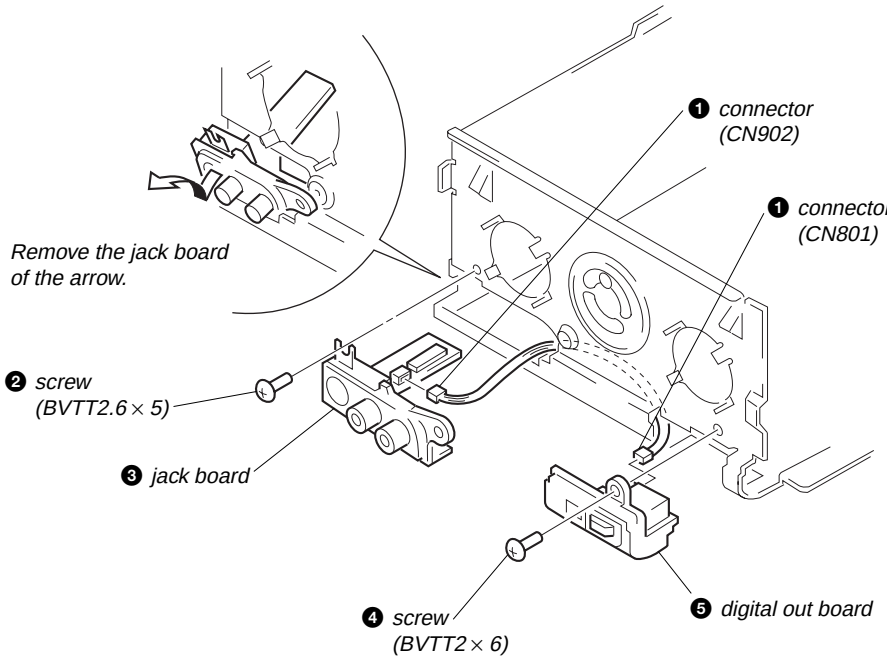
COVER (UPPER), FRONT PANEL ASS'Y


❶ screw (PTT2.6 × 6)
❶ screw (PTT2.6 × 6)
❸ lever (FL)
❷ case (upper)
❶ screw (PTT2.6 × 6)
❶ screw (PTT2.6 × 6)
❸ lever (FL)
❹ front panel ass'y
❶ screw (PTT2.6 × 6)

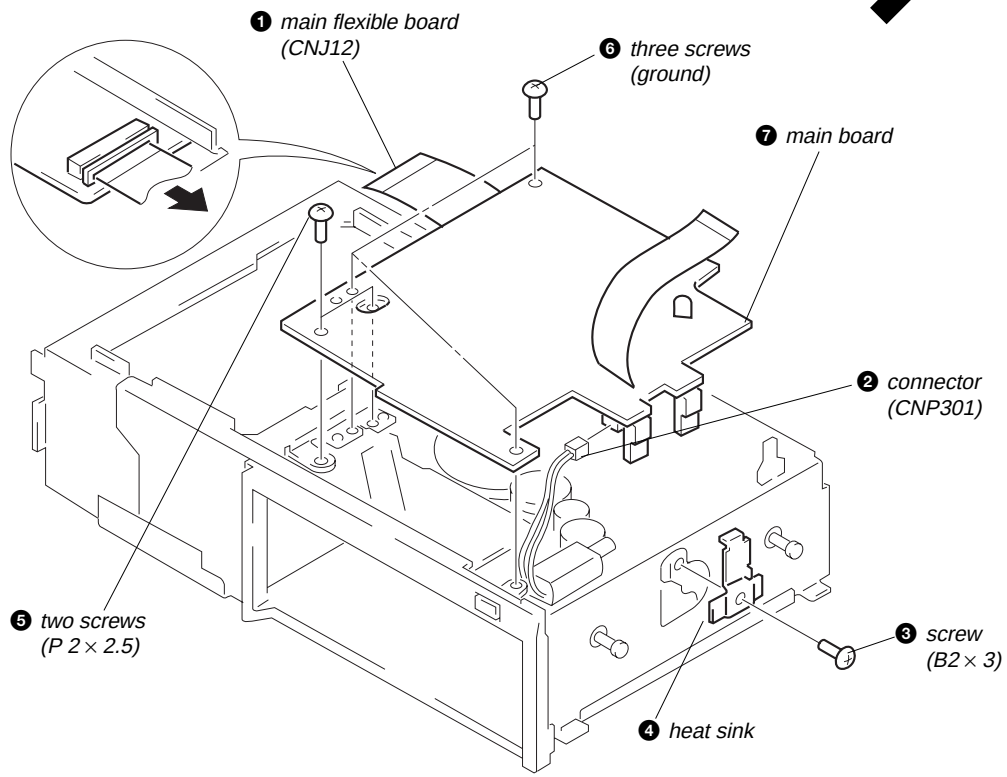
MECHANISM DECK



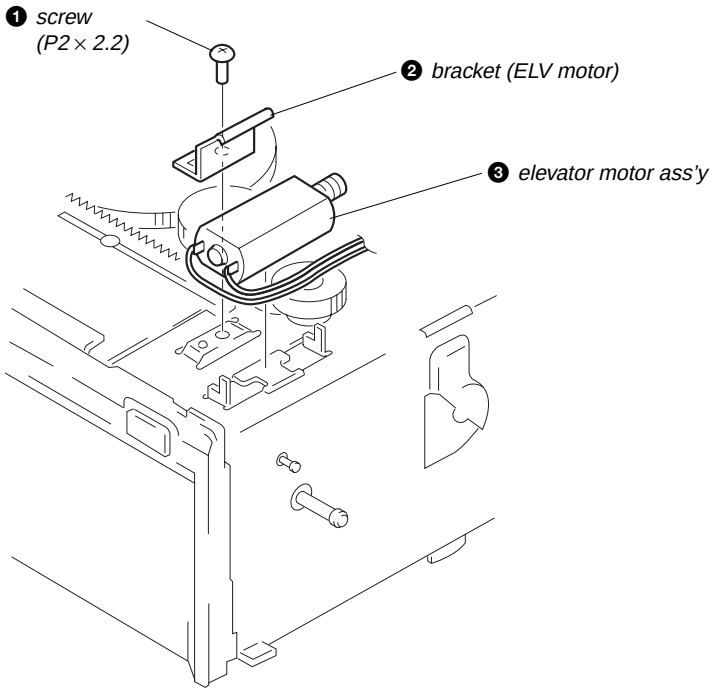
JACK BOARD, DIGITAL OUT BOARD


❶ connector (CN902)
❶ connector (CN801)
Remove the jack board of the arrow.
❷ screw (BVTT2.6 × 5)
❸ jack board
❹ screw (BVTT2 × 6)
❺ digital out board

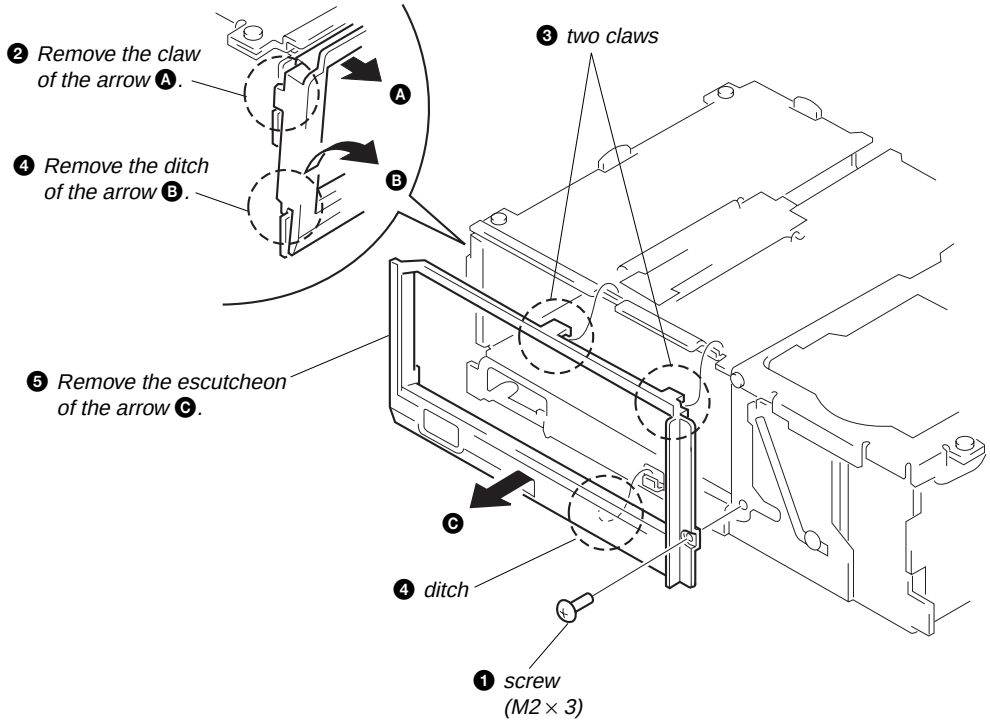
MAIN BOARD



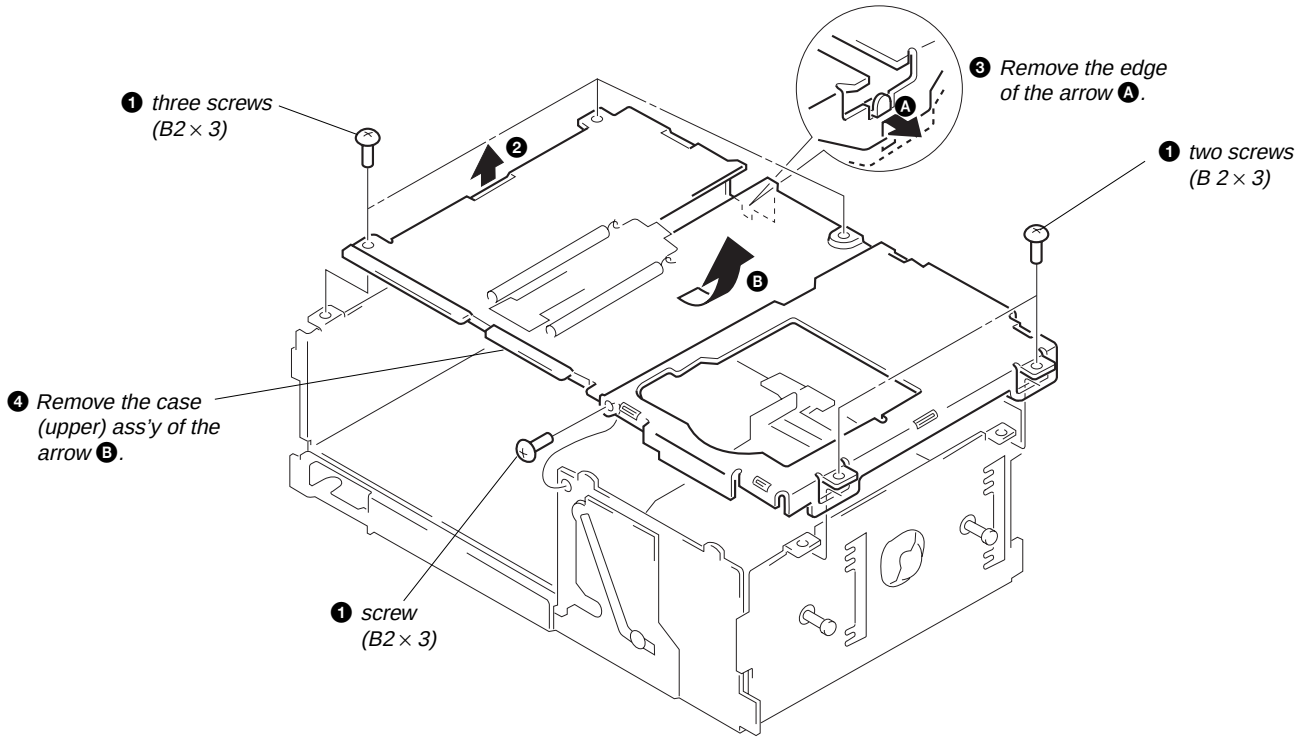
ELEVATOR MOTOR ASS'Y (M104)



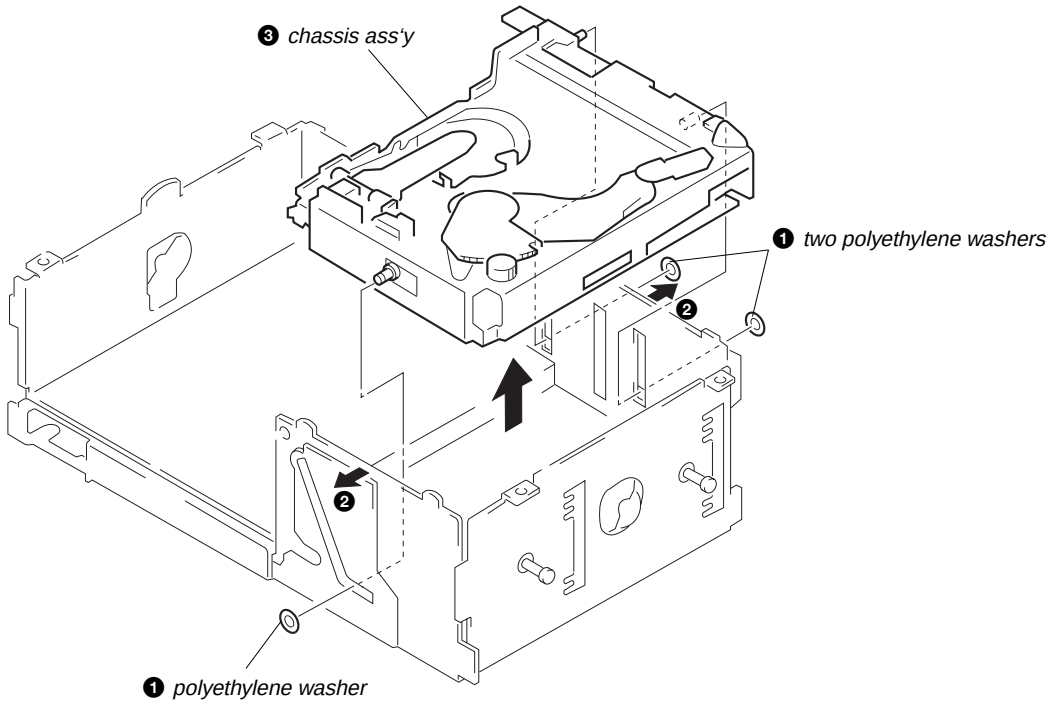
ESCUTCHEON



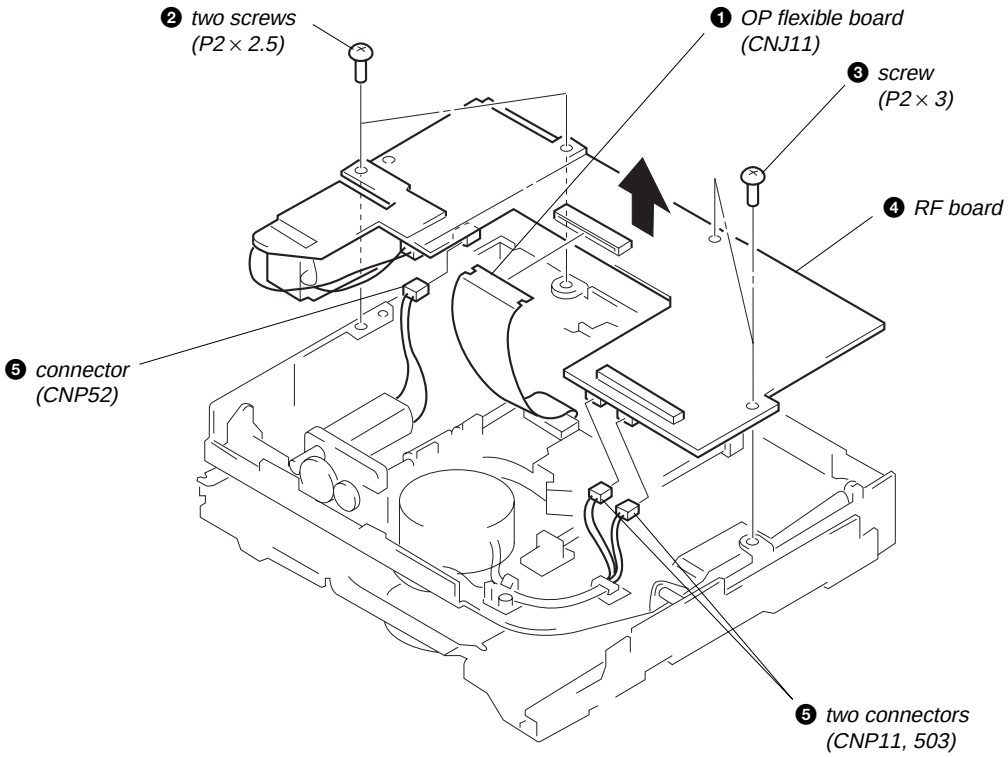
CASE (UPPER) ASS'Y



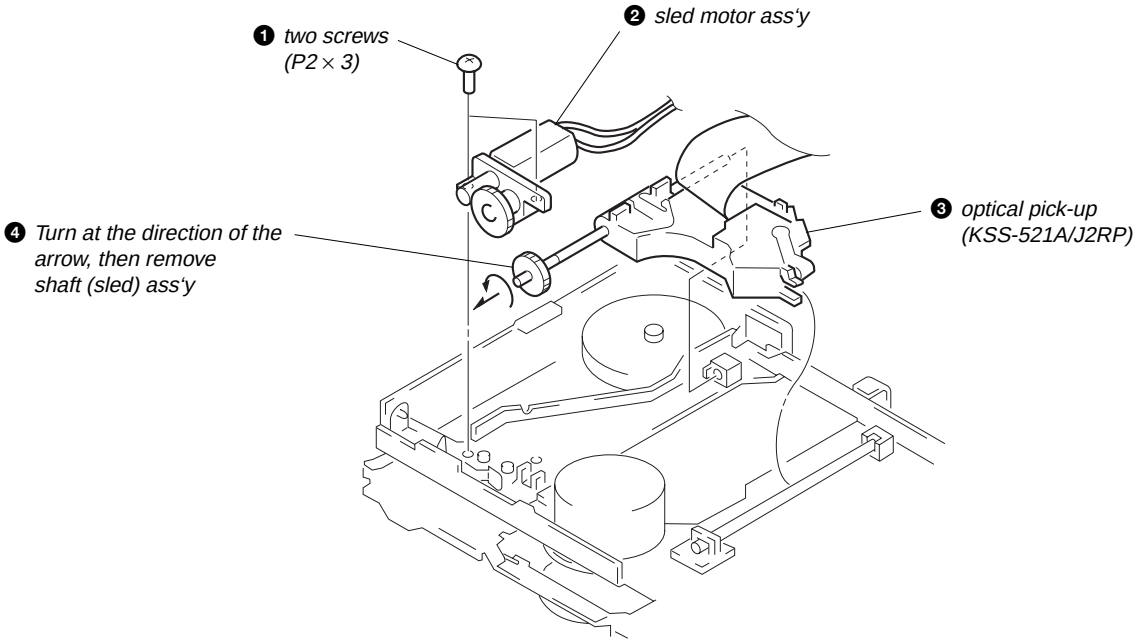
CHASSIS ASS'Y



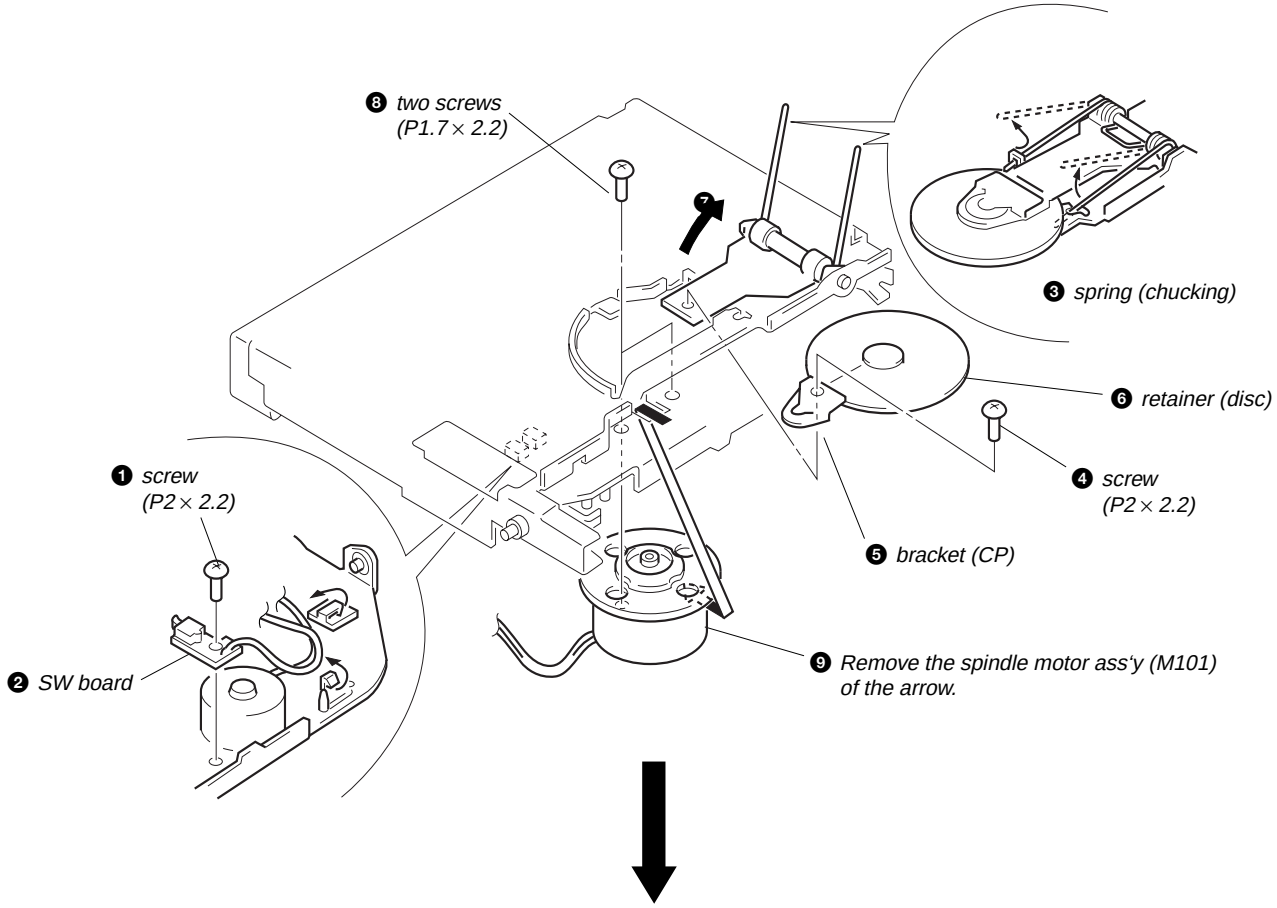
RF BOARD



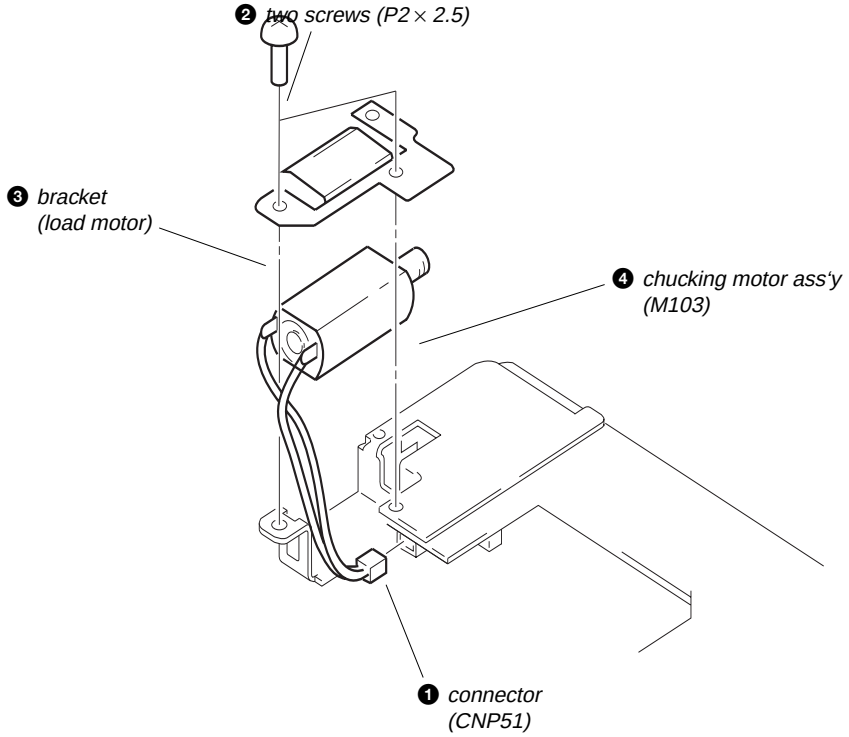
SLED MOTOR ASS'Y (M102), OPTICAL PICK-UP (KSS-521A/J2RP)



SW BOARD, SPINDLE MOTOR ASS'Y (M101)



CHUCKING MOTOR ASS'Y (M103)

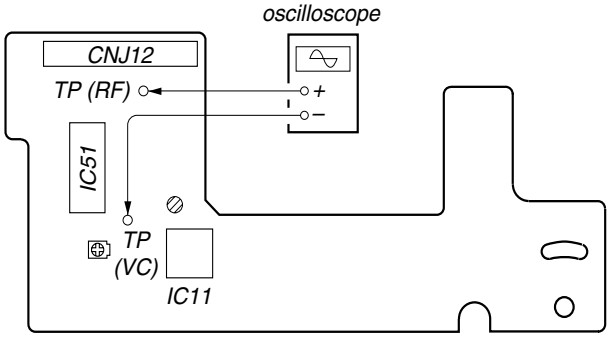


SECTION 3
ELECTRICAL ADJUSTMENTS

Note:
1. Perform adjustments as given.
2. Be sure to use the disc "YEDS-18" parts code: 3-702-101-01, but only when indicated.
3. Power supply voltage: DC14.4 V (more than 3A).

• Focus Bias Check

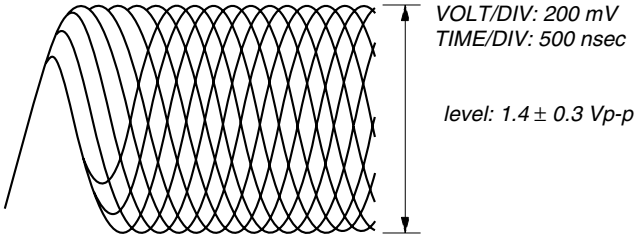
[RF BOARD] – Conductor Side –



Procedure:
1. Connect the oscilloscope to RF board test point RF.
2. Put the set into play mode by loading the disc.
3. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

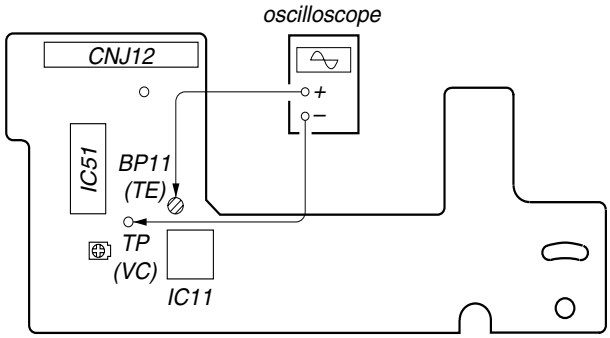
Note:
Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

RF signal waveform

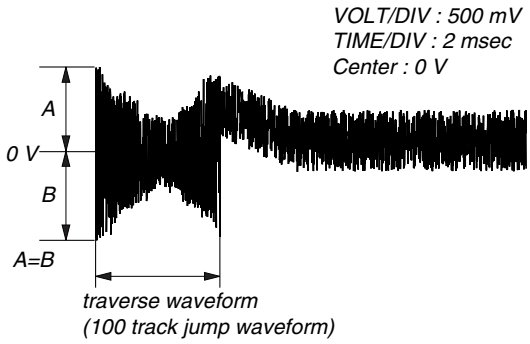


• Tracking Offset Check

[RF BOARD] – Conductor Side –



Procedure:
1. Connect the oscilloscope to RF board bridge point TE.
2. Put the set into play mode by loading the disc.
3. Press the ⏮ AMS ⏭ button, then, check the traverse waveform.
4. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 V dc, and check this level.
   * Traverse waveform: This is the tracking error wave form appears when crossing the track.

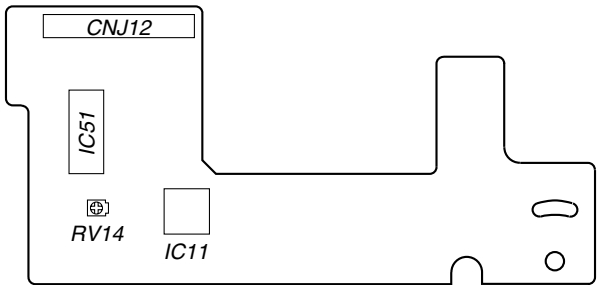


- **FOCUS GAIN ADJUSTMENT (COARSE ADJUSTMENT)**

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV14

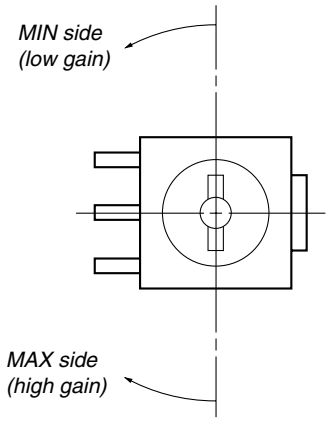
[RF BOARD] – Conductor Side –



Procedure:

1. Set RV14 (RF board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis devise. If there is, turn RV14 slightly clockwise.

[RF BOARD] – Conductor Side –

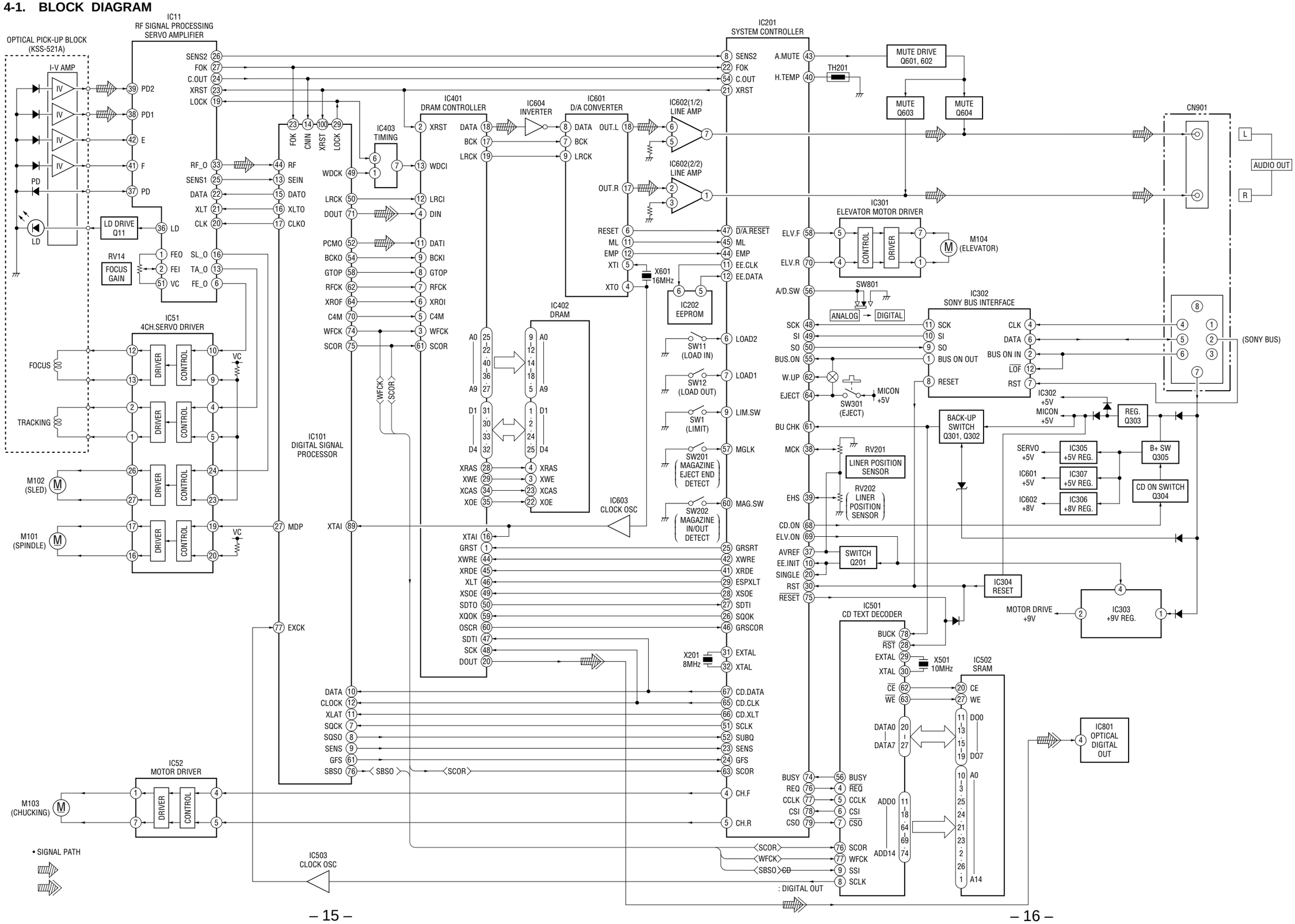


RV14 standard position

- **When gain is lowered...**
  The set does not play because of no focus operation.
- **When gain is highered...**
  Operation noise is heard due to a scratch or a dust, then operation will be unstable.

SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM

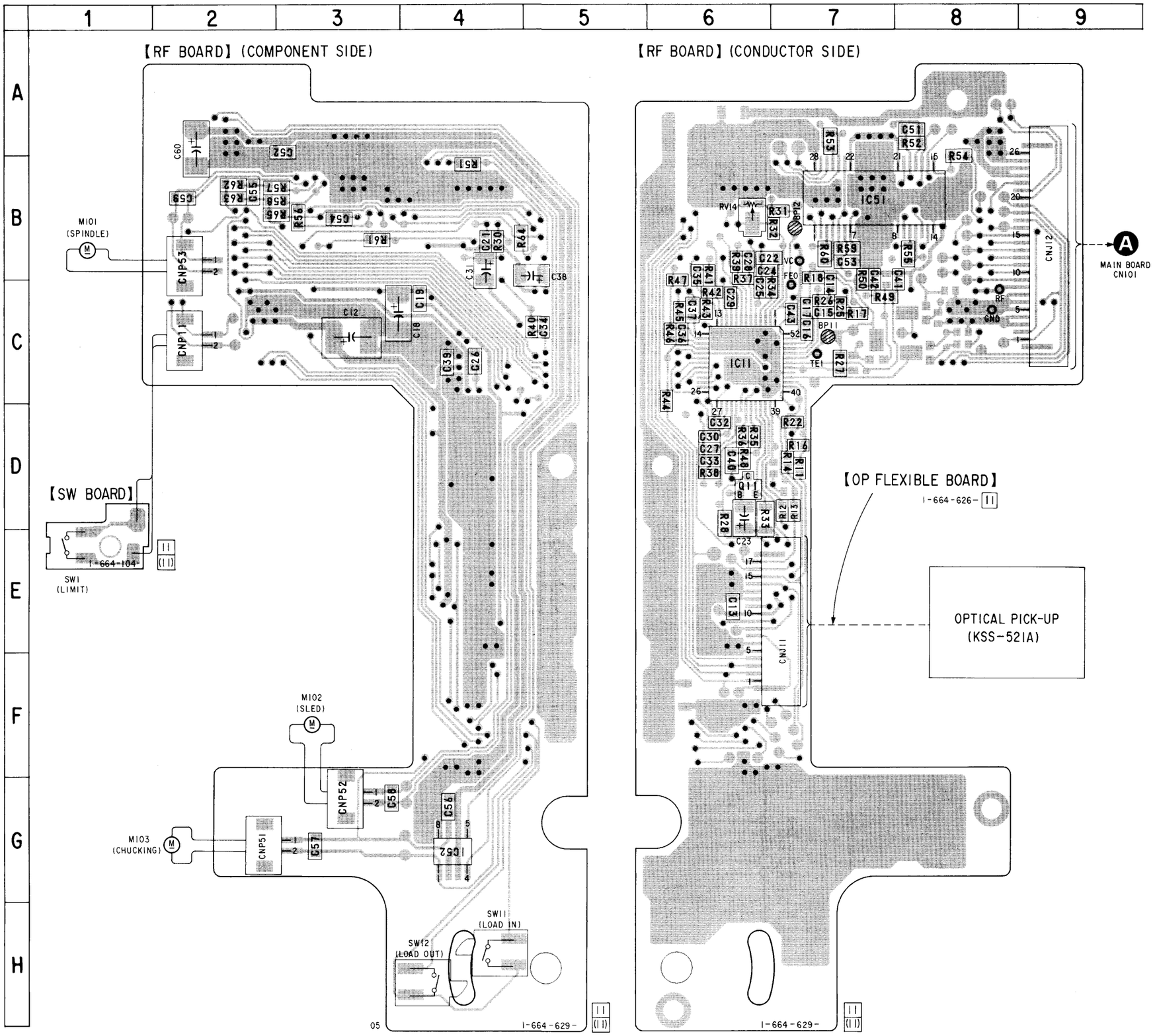


SEE ADDITIONAL INFORMATION

4-2. PRINTED WIRING BOARD – RF Section – • See page 20 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
IC11	C-6
IC51	B-7
IC52	G-4
Q11	D-6

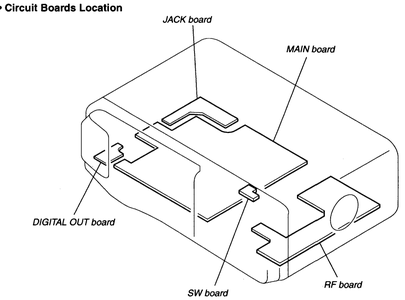


Note on Printed Wiring Board:
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

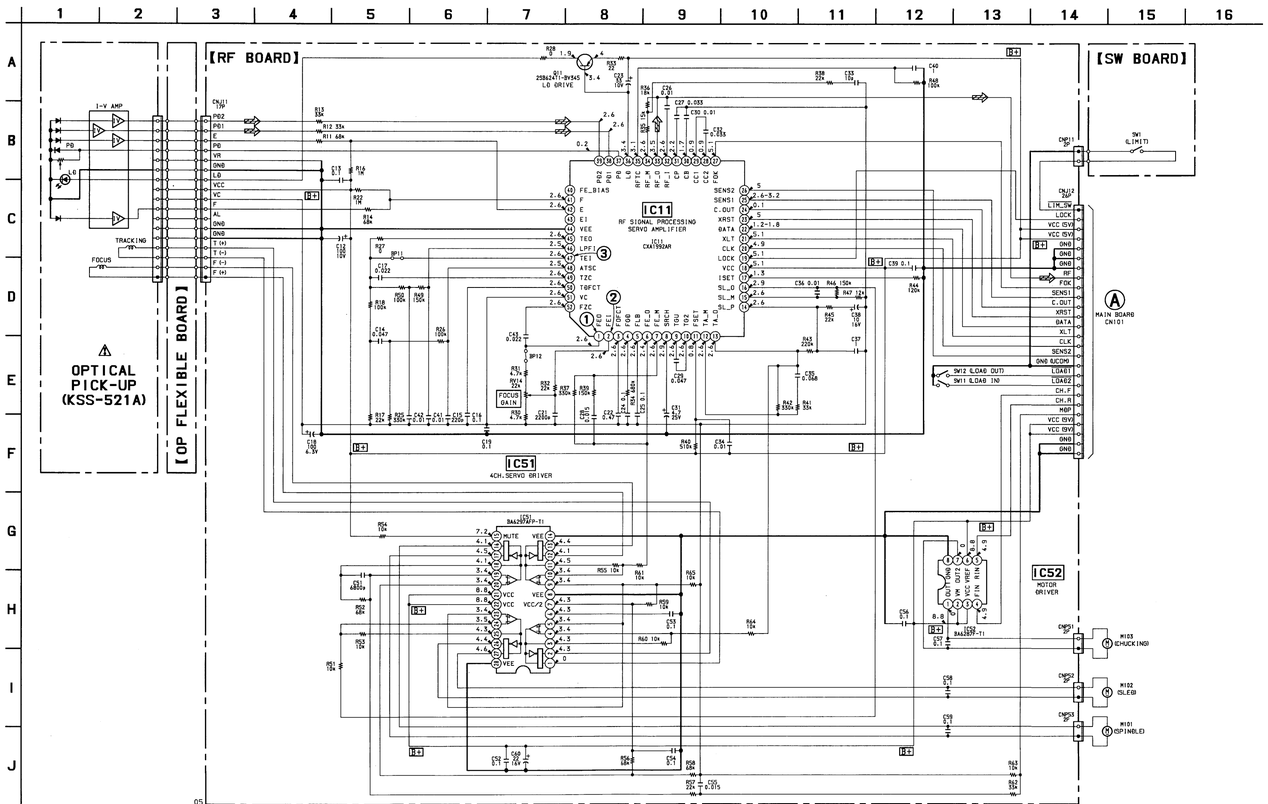
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

• Circuit Boards Location



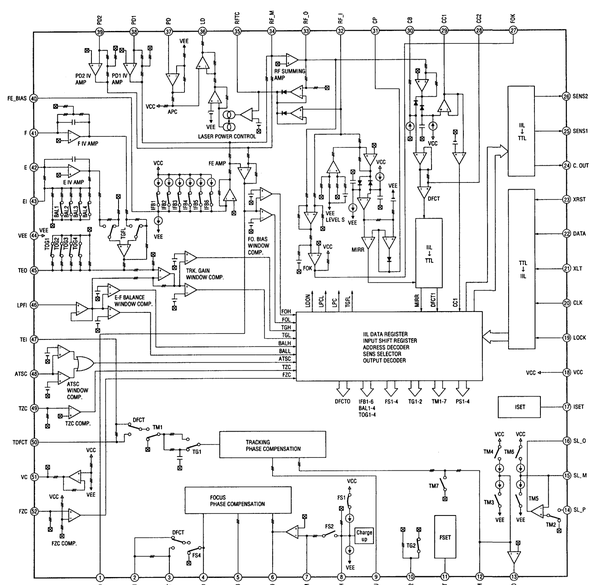
SEE ADDITIONAL INFORMATION

4-3. SCHEMATIC DIAGRAM – RF Section –

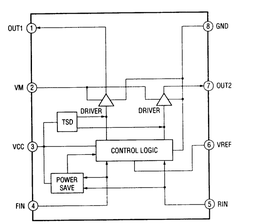


• IC Block Diagrams

IC11 CXA1992AR



IC52 BA6287F



Note on Schematic Diagram:

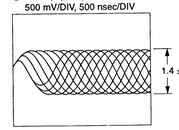
- All capacitors are in μF unless otherwise noted. pF: μμF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

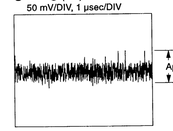
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

• Waveforms

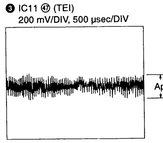
❶ IC11 ① (FEO)
500 mV/DIV, 500 nsec/DIV



❷ IC11 ② (FEI)
50 mV/DIV, 1 μsec/DIV



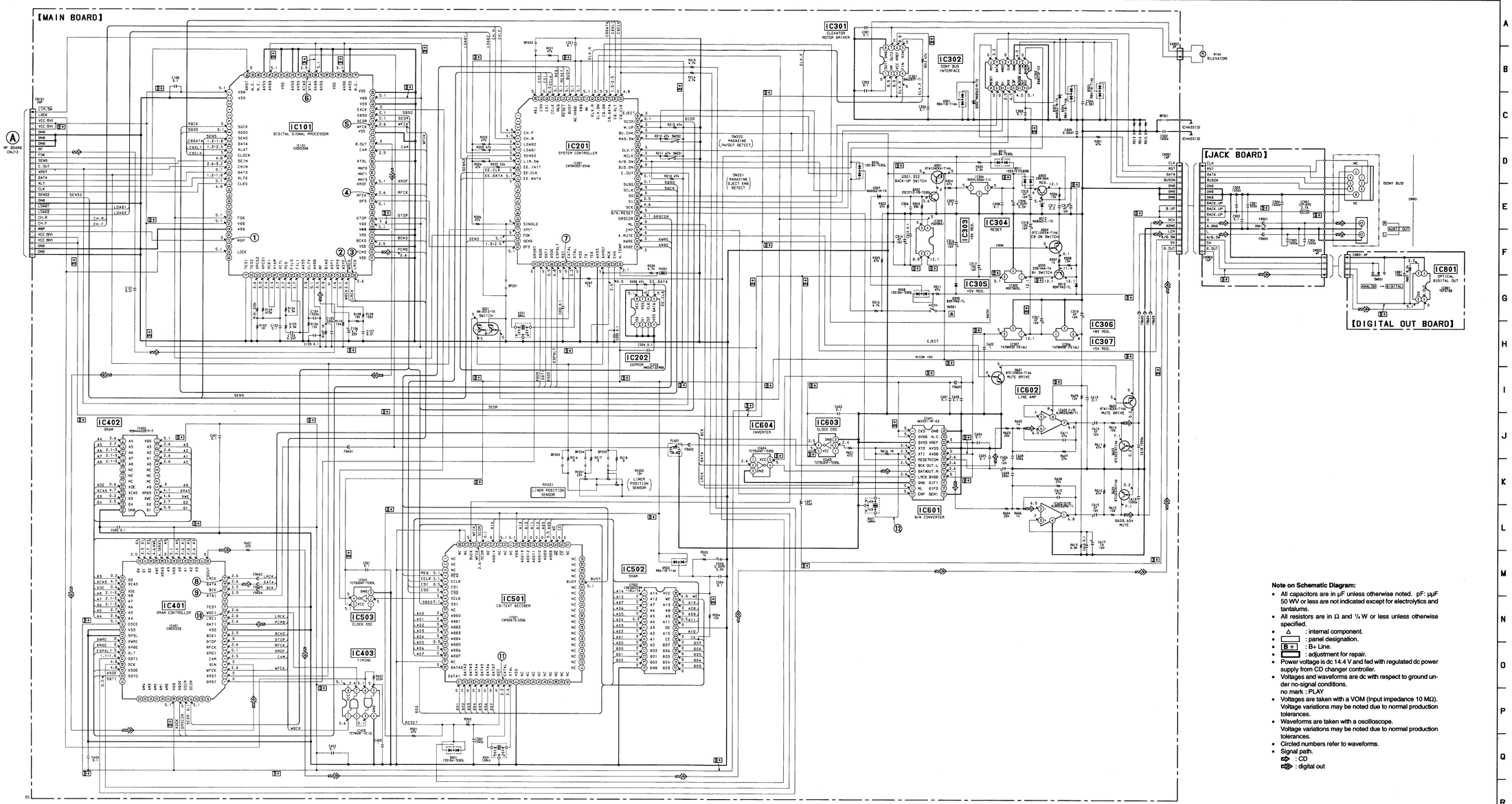
❸ IC11 ⑭ (TEI)
200 mV/DIV, 500 μsec/DIV



4-4. SCHEMATIC DIAGRAM – MAIN Section –

• See page 31 for waveforms. • See page 32 for IC Block Diagrams.

SEE ADDITIONAL INFORMATION



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
  ⇨ : digital out

• Semiconductor Location

Ref. No.	Location
D301	F-12
D302	F-11
D303	F-12
D304	F-10
D305	F-10
D306	G-12
D307	G-12
D308	G-12
D309	F-10
D310	F-11
D311	H-12
D312	F-11
D313	D-10
D501	G-14
D502	I-13
IC101	C-14
IC201	E-15
IC202	E-16
IC301	G-11
IC302	F-13
IC303	F-25
IC304	H-12
IC305	E-25
IC306	F-14
IC307	D-12
IC401	B-13
IC402	D-13
IC403	C-12
IC501	H-13
IC502	H-14
IC503	G-14
IC601	E-13
IC602	E-12
IC603	D-14
IC604	D-13
IC801	G-3
Q201	F-16
Q301	G-12
Q302	G-12
Q303	I-22
Q304	C-10
Q305	D-24
Q601	D-11
Q602	D-11
Q603	E-11
Q604	D-11

Note on Printed Wiring Board:

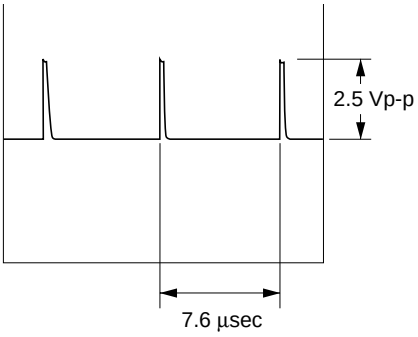
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

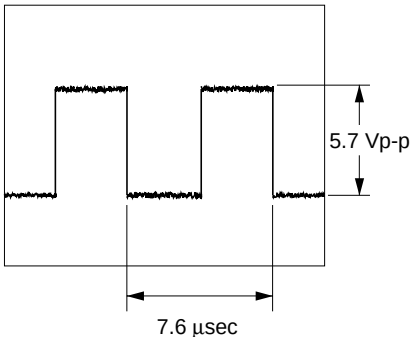
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

• Waveforms

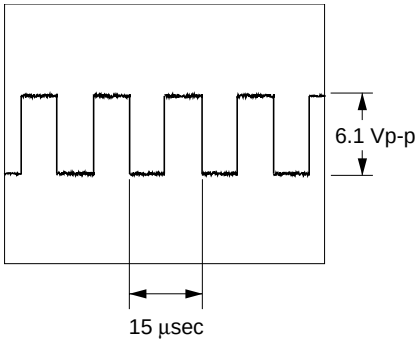
❶ IC101 ㉗ (MDP)



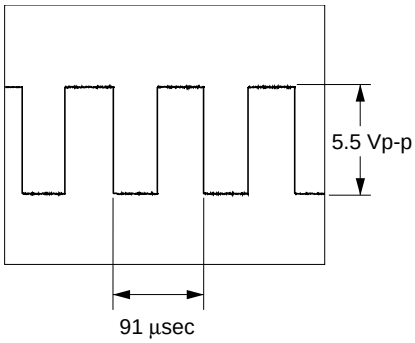
❷ IC101 ㊾ (WDCK)



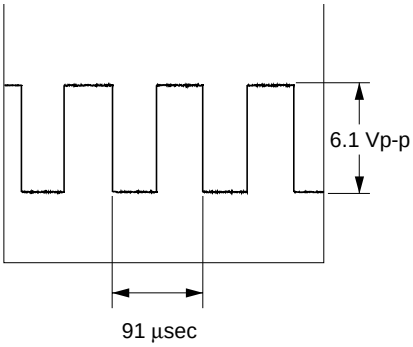
❸ IC101 ㊿ (LRCK)



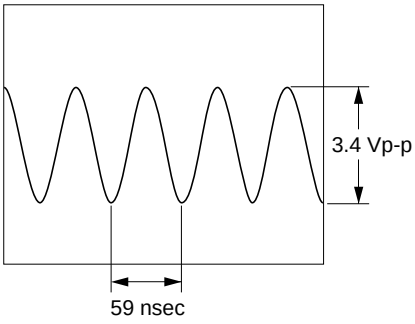
❹ IC101 ㉜ (RFCK)



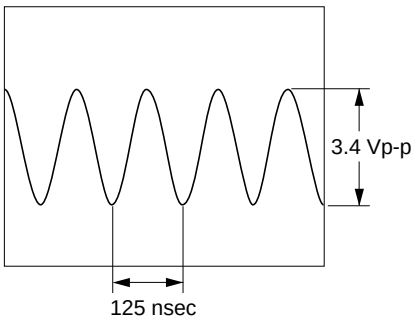
❺ IC101 ㉞ (WFCK)



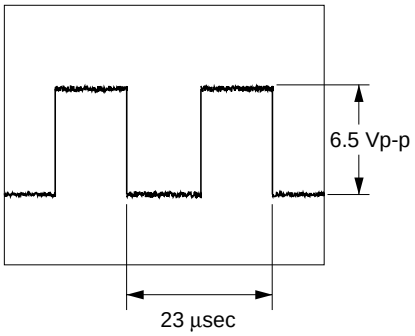
❻ IC101 ㊽ (XTAI)



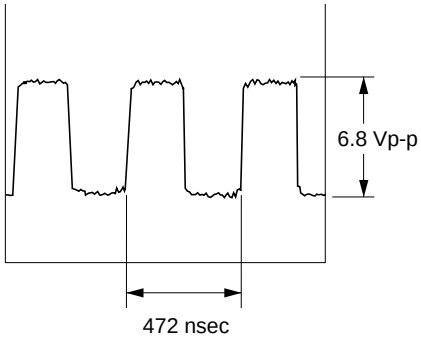
❼ IC201 ㉛ (EXTAL)



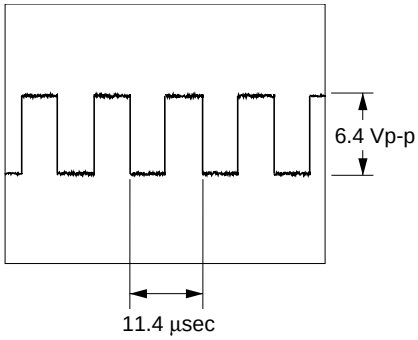
❽ IC401 ⑲ (LRCK)



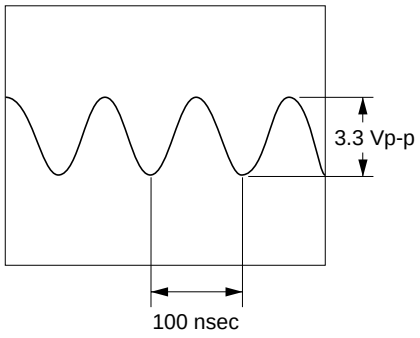
❾ IC401 ⑰ (BCK)



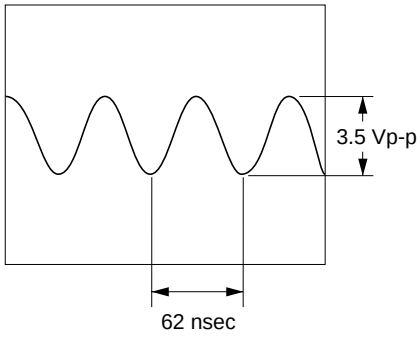
❿ IC401 ⑬ (WDCI)



⓫ IC501 ㉙ (EXTAL)



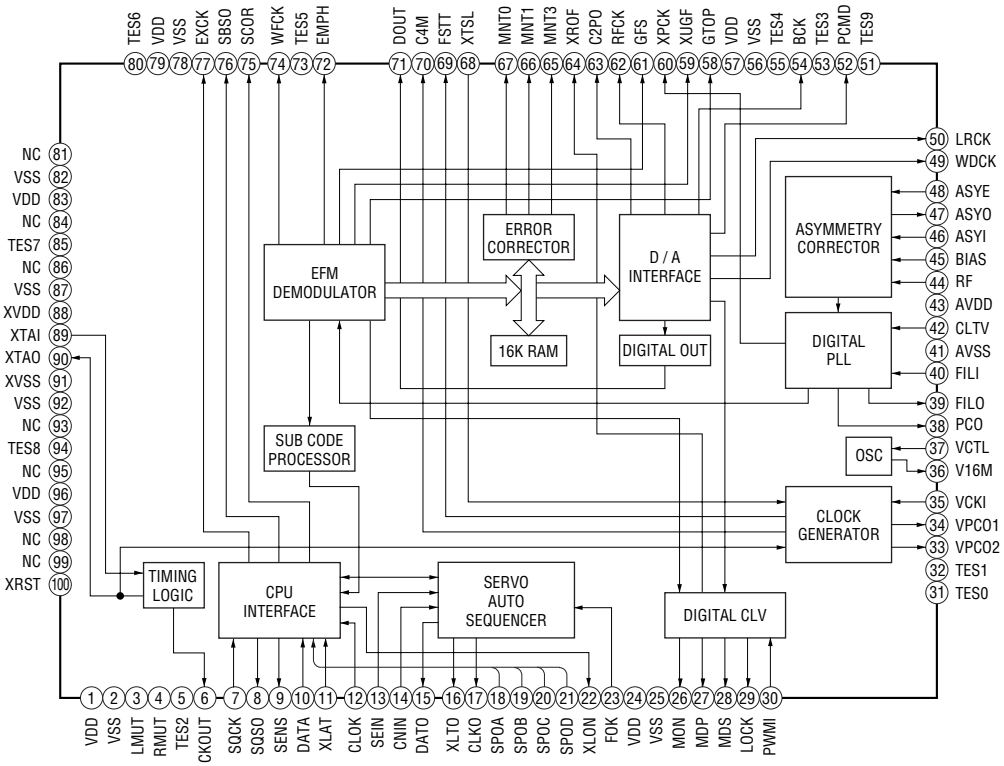
⓬ IC601 ⑤ (XTI)



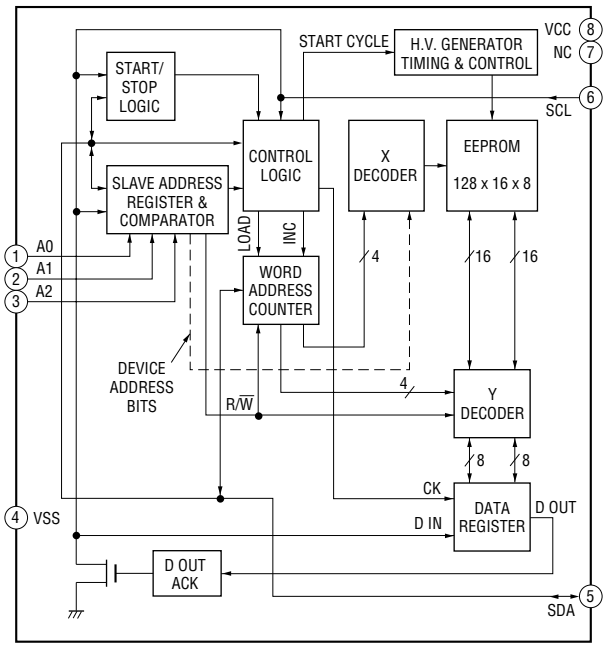
• IC Block Diagrams

– MAIN Section –

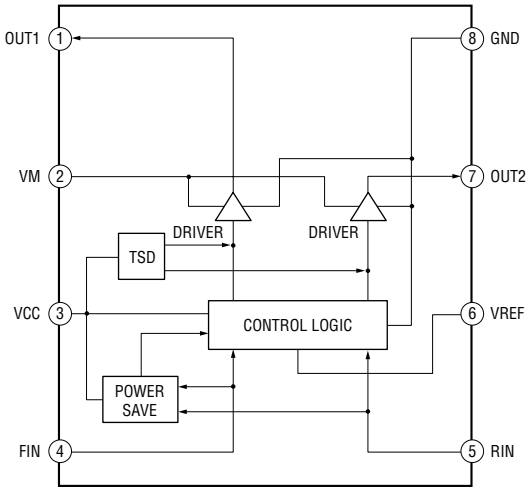
IC101 CXD2530Q



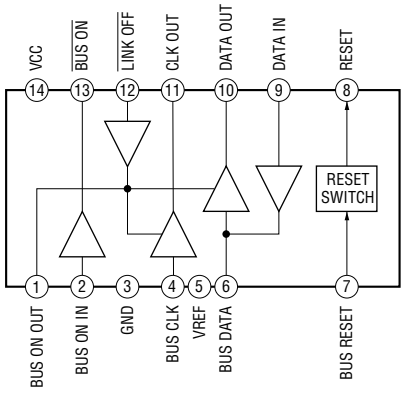
IC202 NM24C16EM8X



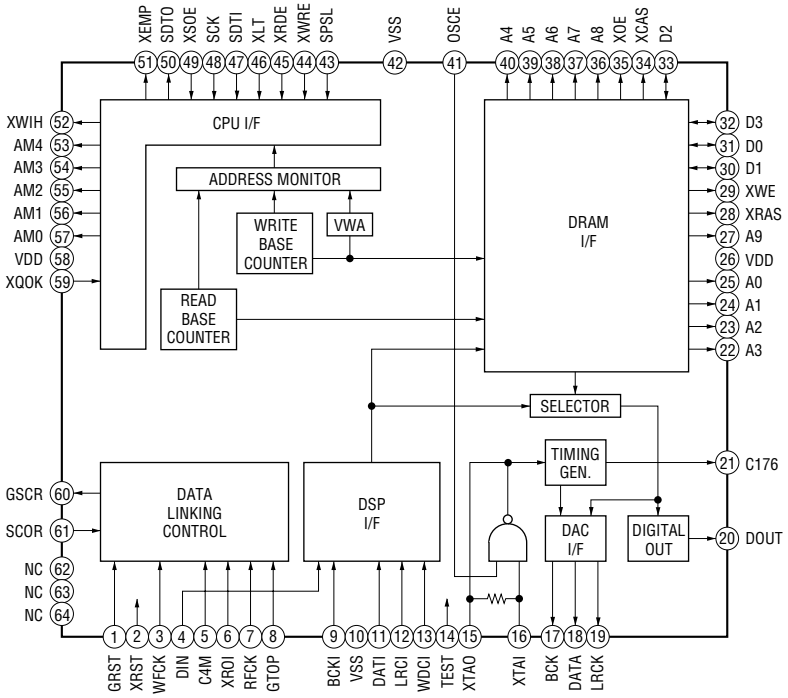
IC301 BA6287F



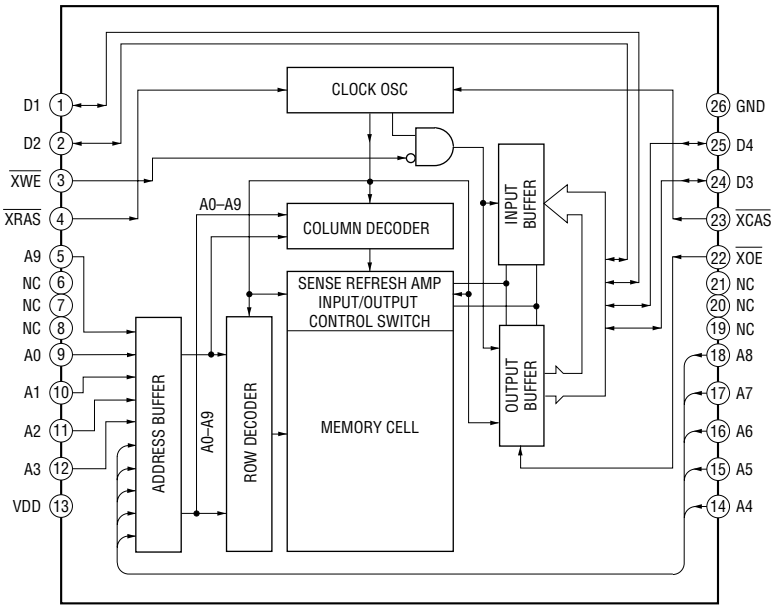
IC302 BA8272F-E2



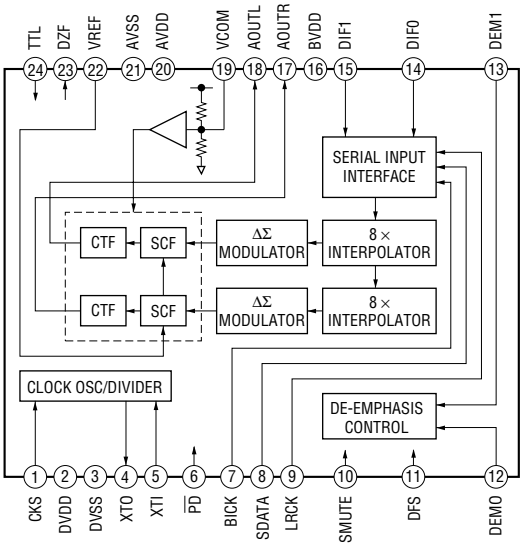
IC401 CXD2522Q



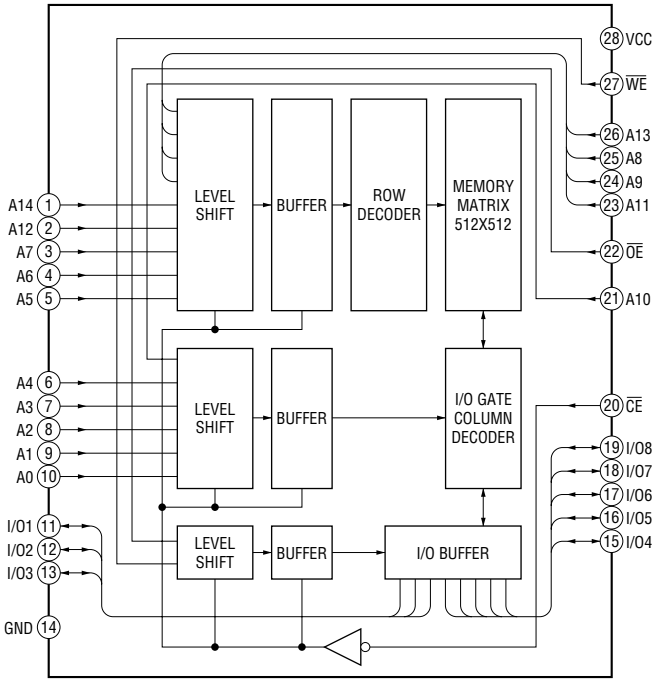
IC402 M5M44400BTP-7



IC601 AK4321-VF-E2



IC502 CXK58257BM-10LL-T6



4-6. IC PIN FUNCTON DESCRIPTION

MAIN BOARD IC201 CXP84332-054Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1-3	–	O	Not used
4	CH. F	O	Output of control signal to the chucking motor drive (IC52)
5	CH. R	O	

	FWD	REV	Brake
CH.F	H	L	H
CH.R	L	H	H

Forward : Load chucking
Reverse: Save

Pin No.	Pin Name	I/O	Function
6	LOAD2	I	Input of LOAD IN switch
7	LOAD1	I	Input of LOAD OUT switch
8	SENS2	I	Input of sense signal from CXA1992AR (IC11) and CXD2530Q (IC101)
9	LIM. SW	I	Input of limit switch
10	EE. INIT	I	Input of initialize signal from E^2PROM (IC202) "H" : Format
11	EE. CLK	O	Output of clock signal to E^2PROM (IC202)
12	EE. DATA	I/O	Input/output of data signal to E^2PROM (IC202)
13-19	–	O	Not used
20	SINGLE	I	Selection of single mode "L" : Single CD playing
21	XRST	O	Output of reset signal to peripheral servo IC
22	FOK	I	Input of focus OK signal form CXA1992AR (IC11) and CXD2530Q (IC101)
23	SENS	I	Input of sense signal from CXA1992AR (IC11) and CXD2530Q (IC101)
24	GFS	I	Input of guard frame sync signal from CXD2530Q (IC101)
25	GRSRST	O	Output of GRSCOR reset pulse to CXD2522Q (IC401)
26	XQOK	O	Output of subcode Q OK pulse to CXD2522Q (IC401)
27	SDIT	I	Input of ESP status signal from CXD2522Q (IC401)
28	XSOE	O	Output of ESP status read enable signal to CXD2522Q (IC401)
29	ESPXLT	O	Output of ESP latch pulse to CXD2522Q (IC401)
30	RST	I	Input of system reset signal "L" : Reset
31	EXTAL	I	Input of system clock (8 MHz)
32	XTAL	O	Output of system clock (8 MHz)
33	VSS	–	Ground pin
34	TX	–	Not used
35	TEX	–	Not used
36	AVSS	–	Ground pin of A/D converter
37	AVREF	I	Input of A/D converter reference voltage
38	MCK	I	Input of signal for fine adjustment of elevator position
39	EHS	I	Input of elevator height detection voltage (RV202)
40	H. TEMP	I	Input of high temperature detection signal
41	XRDE	O	Output of DRAM read enable signal
42	XWRE	O	Output of DRAM write enable signal
43	A. MUTE	O	Output of audio output mute on/off control signal "H" : Mute on
44	EMP	O	Output of emphasis mode for disc playing "L" : on
45	ML	O	Selection of fast speed dubbing "L" : Fast speed
46	GRSCOR	I	Input of GRSCOR from CXD2522Q (CI401)
47	$\overline{\text{D/A. RESET}}$	O	Output of reset signal to D/A converter (IC601)
48	SCK	I	Input of serial clock signal from SONY bus interface (IC302)

Pin No.	Pin Name	I/O	Function
49	SI	I	Input of serial data signal from SONY bus interface (IC302)
50	SO	O	Output of serial data signal to SONY bus interface (IC302)
51	SCLK	O	Output of subcode Q data reading clock signal to CXD2530Q (IC101)
52	SUBQ	I	Input of subcode Q data signal from CXD2530Q (IC101)
53	–	–	Not used
54	C. OUT	I	Input of track counting signal
55	BUS. ON	I	Input of BUS ON control signal from SONY bus interface (IC302) "H" : Bus on
56	A/D. SW	I	Input of digital/analog audio switching signal "L" : Digital output
57	MCLK	I	Input of magazine eject completion detect switch (SW201) "L" : Eject completed
58	ELV. F	O	Output of control signal to elevator motor drive (IC301)
59	–	–	Not used
60	MAG. SW	I	Input of magazine detection switch (SW202) "L" : Magazine detected
61	BU. CHK	I	Input of backup detection "H" : Backup on
62	W. UP	I	Input of Bus on or Eject key
63	SCOR	I	Input of subcode sync detect signal from CXD2530Q (IC101)
64	EJECT	I	Input of Eject key (SW301) "H" : Eject on
65	CD. CLK	O	Output of serial data transfer clock signal to CXD2530Q (IC101) and CXD2522Q (IC401)
66	CD. XLT	O	Output of latch signal to CXD2530Q (IC101)
67	CD. DATA	O	Output of serial data signal to CXD2530Q (IC101) and CXD2522Q (IC401)
68	CD. ON	O	Output of servo power supply control signal "H" : on
69	ELV. ON	O	Output of mechanical deck power supply control signal "H" : on
70	ELV. R	O	Output of control signal to elevator motor drive (IC301)
71	–	–	Not used
72	VDD	–	Power supply
73	NC (VDD)	–	Connected to the power supply
74	BUSY	I	Input of Busy signal from CXP83413 (IC501)
75	$\overline{\text{RESET}}$	O	"Request to reset" signal to CXP83413 (IC501)
76	REQ	I	"Request to send" signal from CXP83413 (IC501)
77	CCLK	O	Output of command clock signal to CXP83413 (IC501)
78	CSI	I	Input of command data from CXP83413 (IC501)
79	CSO	O	Output of command data to CXP83413 (IC501)
80	ADJ	I	Automatic adjustment selection "H" : Automatic adjustment "L" : Manual adjustment (Solder across the BP202 terminal)

MAIN BOARD IC501 CXP83413-035Q (CD-TEXT DECODER)

Pin No.	Pin Name	I/O	Function
1, 2	NC	–	Not used (open)
3	NC	I	Not used (Fixed at "L")
4	$\overline{\text{REQ}}$	O	"Request to send" signal to the system controller (IC201)
5	CCLK	I	Input of command clock signal from the system controller (IC201)
6	CSI	I	Input of command data from the system controller (IC201)
7	$\overline{\text{CSO}}$	O	Output of command data to the system controller (IC201)
8	SCLK	O	Output of subcode Q data reading clock signal to CXD2530Q (IC101)
9	SSI	I	Input of subcode Q data signal from CXD2530Q (IC101)
10	NC	–	not used (open)
11-18	ADD0-ADD7	O	Address signal output to the SRAM (IC502)
19	NC	I	Not used (Fixed at "L")
20-27	DATA0-DATA7	I/O	Data signal input/output with the SRAM (IC502)
28	$\overline{\text{RST}}$	I	Reset signal input from the system controller (IC201)
29	EXTAL	I	Input of system clock (10 MHz)
30	XTAL	O	Output of system clock (10 MHz)
31	VSS	–	Ground pin
32-55	NC	–	Not used (open)
56	BUSY	O	Output of Busy signal to the system controller (IC201)
57-61	NC	–	Not used (open)
62	$\overline{\text{CE}}$	O	Chip enable signal output to the SRAM (IC502)
63	$\overline{\text{WE}}$	O	Reading/Writing control signal output to the SRAM (IC502)
64-69	ADD8-ADD13	O	Address signal output to the SRAM (IC502)
70	VDD	–	Power supply
71, 72	NC	–	Not used (open)
73	NC	–	Connected to the power supply
74	ADD14	O	Address signal output to the SRAM (IC502)
75	NC	–	Not used (open)
76	SCOR	I	Input of subcode sync detect signal from CXD2530Q (IC101)
77	WFCK	I	Input of write frame check signal from CXD2530Q (IC101)
78	BUCK	I	Input of back up detection "H" : Backup on
79, 80	NC	I	Not used (Fixed at "L")

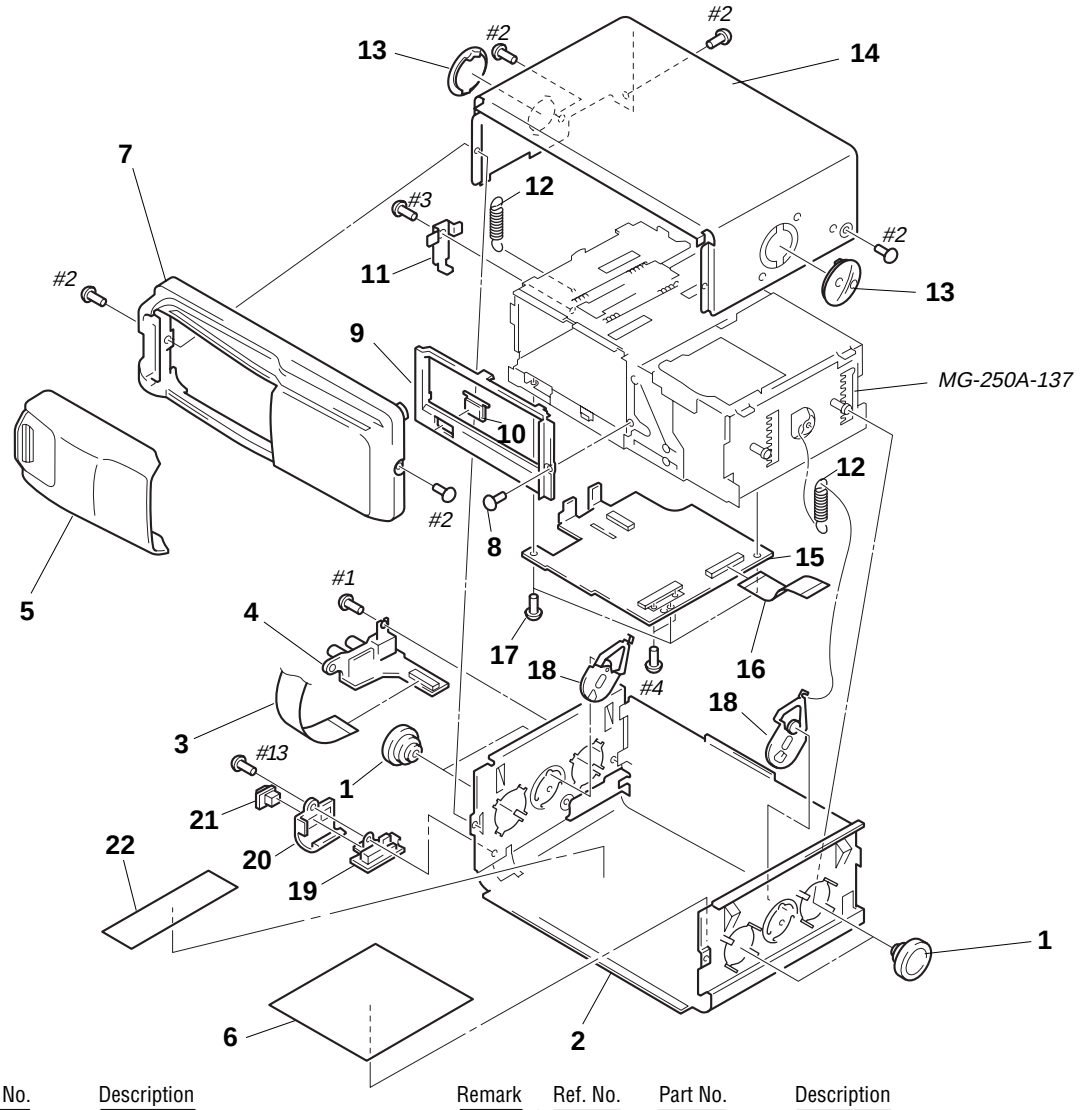
SECTION 5
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

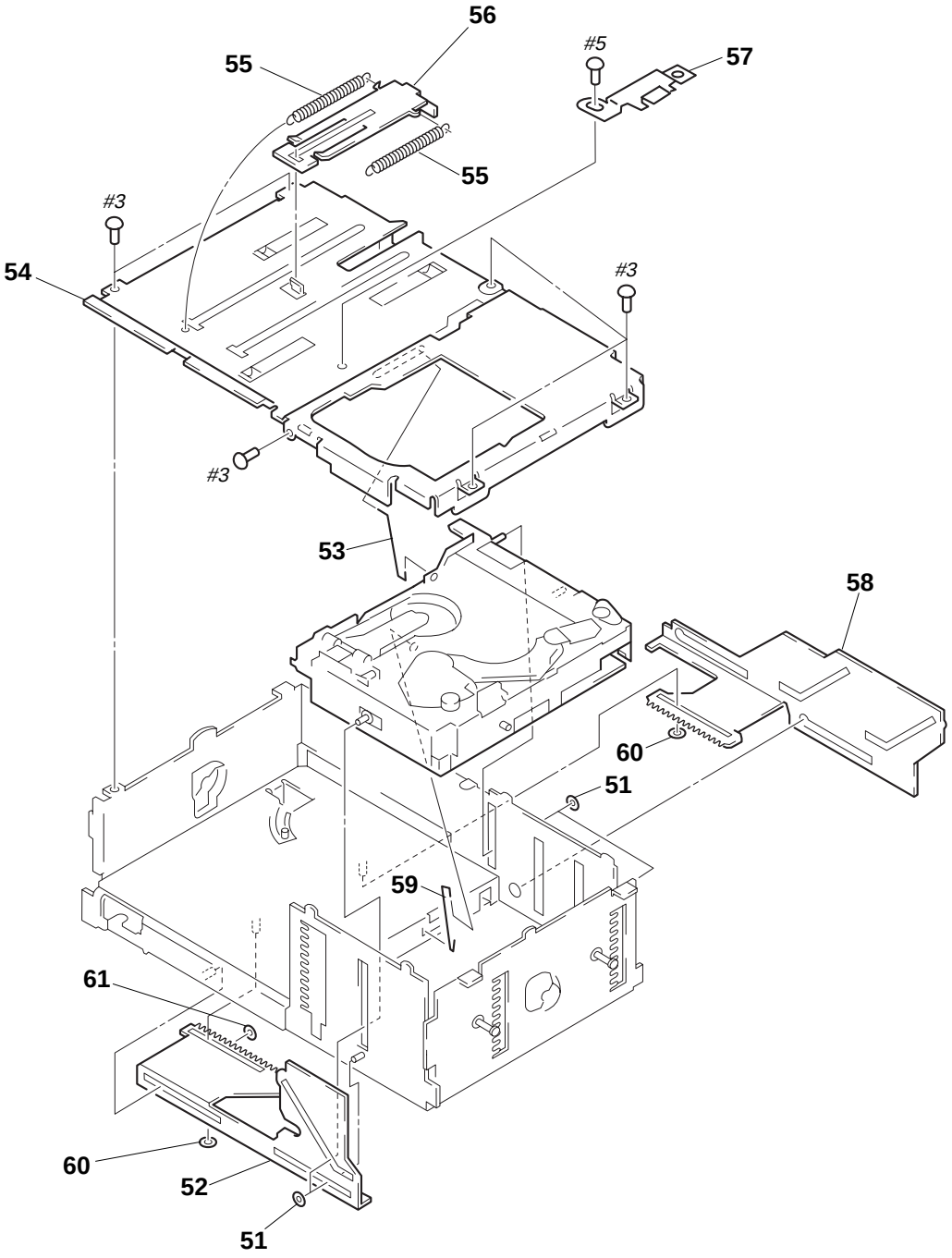
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

(1) COVER SECTION



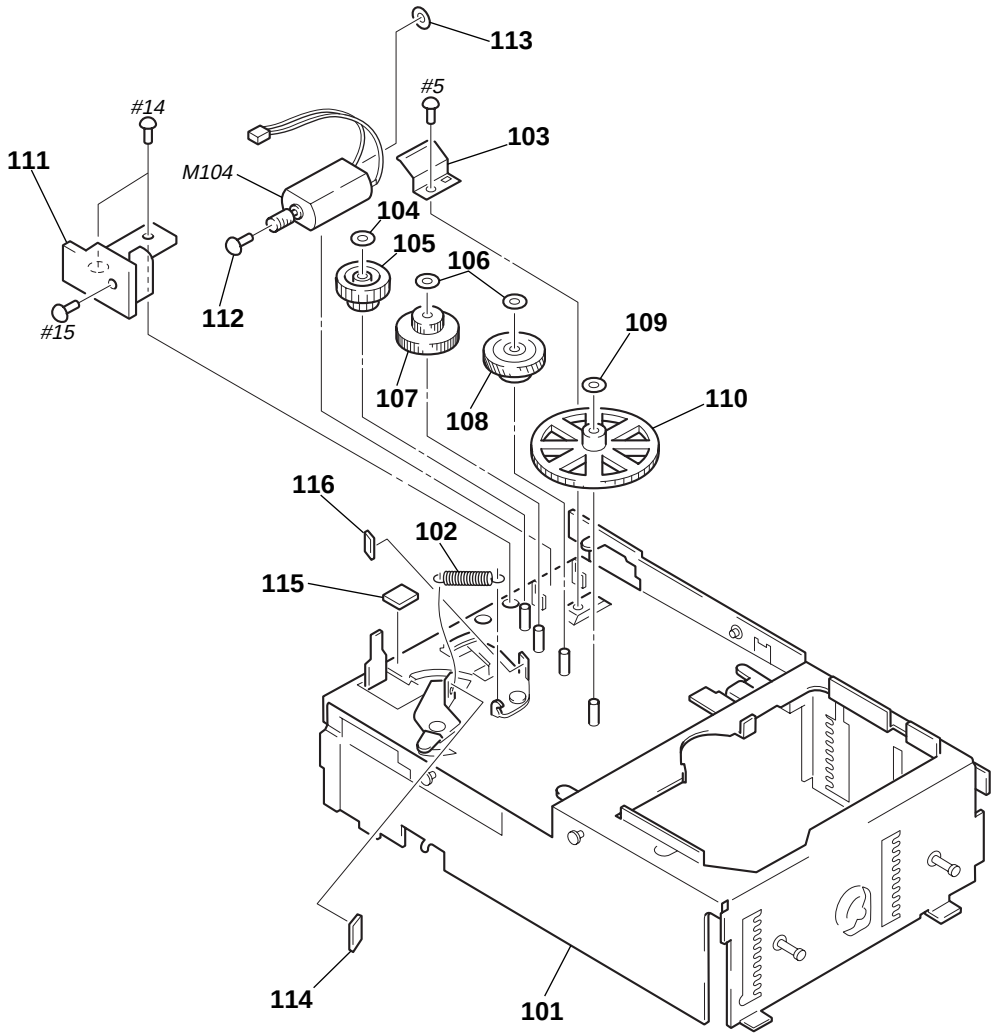
Ref. No.	Part No.	Description	Remark
1	3-010-104-01	DAMPER (250)	
* 2	3-010-097-11	COVER (LOWER)	
3	1-664-796-11	JACK FLEXIBLE BOARD	
* 4	1-664-797-11	JACK BOARD	
5	X-3373-217-1	DOOR ASSY	
* 6	3-012-790-01	SHEET (F), PROTECTION	
7	3-010-098-11	PANEL, FRONT (EXCEPT US)	
7	3-010-098-61	PANEL, FRONT (US)	
8	3-012-388-01	SCREW (M 2X3)	
* 9	3-010-105-01	ESCUTCHEON	
* 10	3-010-106-01	BUTTON (EJ) (⏏)	
* 11	3-010-107-01	HEAT SINK	
12	3-010-103-01	SPRING (FL)	
13	3-010-101-01	LEVER (FL)	
* 14	3-010-096-11	COVER (UPPER)	
* 15	A-3309-810-A	MAIN BOARD, COMPLETE	
16	1-664-627-11	MAIN FLEXIBLE BOARD	
17	3-913-406-01	SCREW (GROUND)	
18	X-3373-215-1	ARM (FL) ASSY	
* 19	1-664-798-11	DIGITAL OUT BOARD	
20	3-011-204-01	COVER (LIGHT)	
21	3-924-924-01	COVER (LIGHT)	
* 22	3-013-658-01	SHEET (FJ), PROTECTION	

(2) MECHANISM DECK SECTION-1 (MG-250A-137)



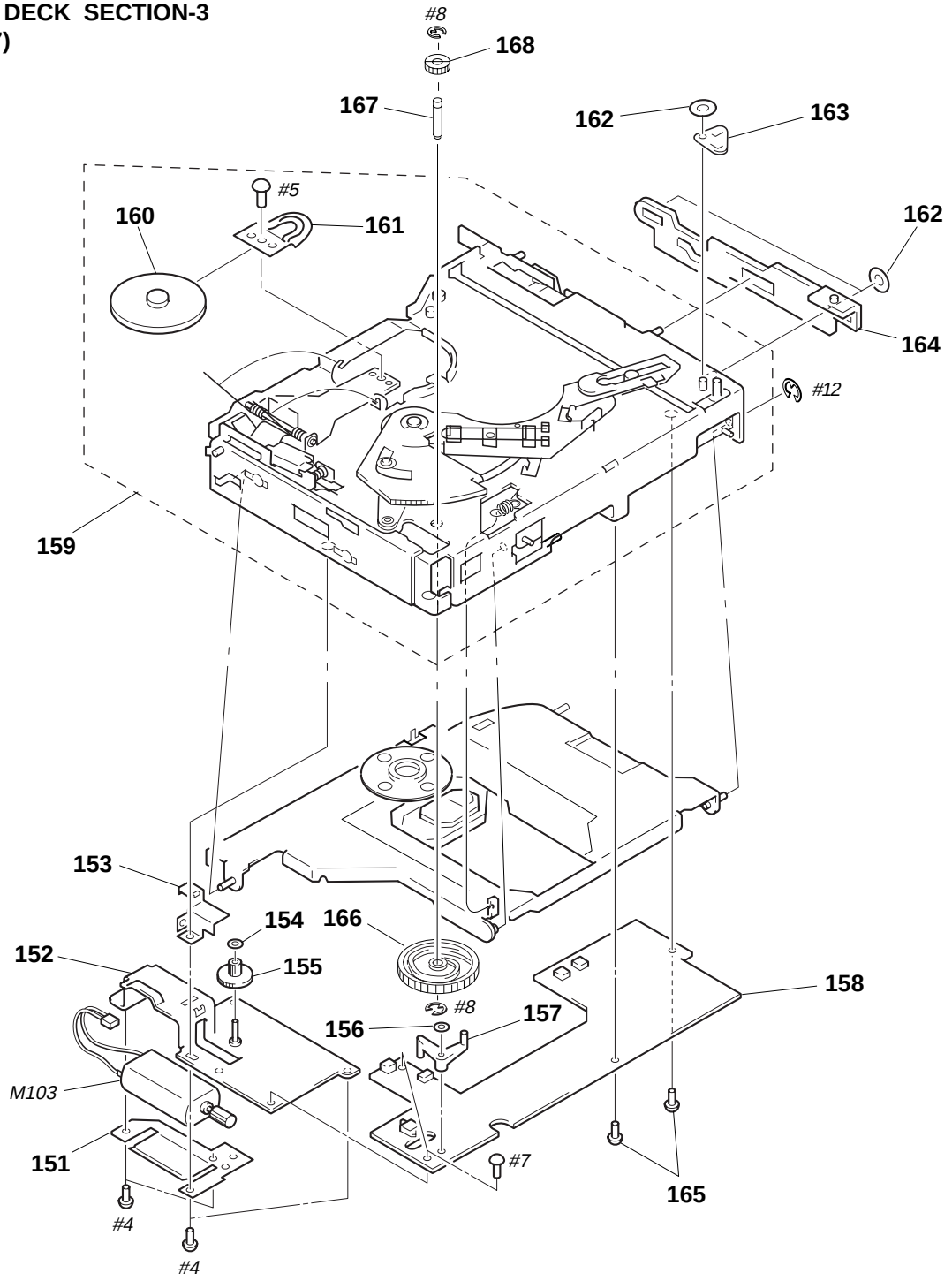
Ref. No.	Part No.	Description	Remark
51	4-965-759-01	WASHER, POLYETHYLENE	
* 52	X-3373-239-1	SLIDER (R) ASSY	
53	3-010-244-01	SPRING (STOPPER. UPPER)	
* 54	X-3373-243-1	CASE (UPPER) ASSY	
55	3-010-217-01	SPRING (EJECT)	
* 56	3-010-162-01	LEVER (EJECT)	
* 57	3-011-998-01	BRACKET (STOPPER UPPER)	
* 58	3-010-240-01	SLIDER (L)	
59	3-011-997-01	SPRING (STOPPER LOWER)	
60	3-578-224-00	WASHER	
61	3-736-073-01	SLIDER, POLYETHYLENE	

(3) MECHANISM DECK SECTION-2 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
* 101	X-3373-223-1	CASE (LOWER) ASSY	
102	3-010-266-01	SPRING (STOP LEVER), TENSION	
* 103	3-010-250-01	BRACKET (ELV MOTOR)	
104	3-736-073-01	SLIDER, POLYETHYLENE	
105	3-010-211-01	GEAR (WORM ELV)	
106	3-336-319-01	RING, RETAINING	
107	3-010-175-01	GEAR (ELV 1)	
108	3-010-239-01	GEAR (ELV 2)	
109	3-362-579-01	RING, RETAINING	
110	3-010-249-01	GEAR (ELV 3)	
* 111	3-016-916-01	BRACKET (WORM RETAINER)	
* 112	3-016-681-01	SHAFT (WORM RETAINER)	
* 113	3-014-685-01	SPACER (MO)	
* 114	3-014-389-01	SPACER (LSW)	
* 115	3-014-683-01	SPACER (PB)	
116	3-015-483-00	SPACER	
M104	A-3301-123-A	ELJ MOTOR ASSY, (ELEVATOR)	

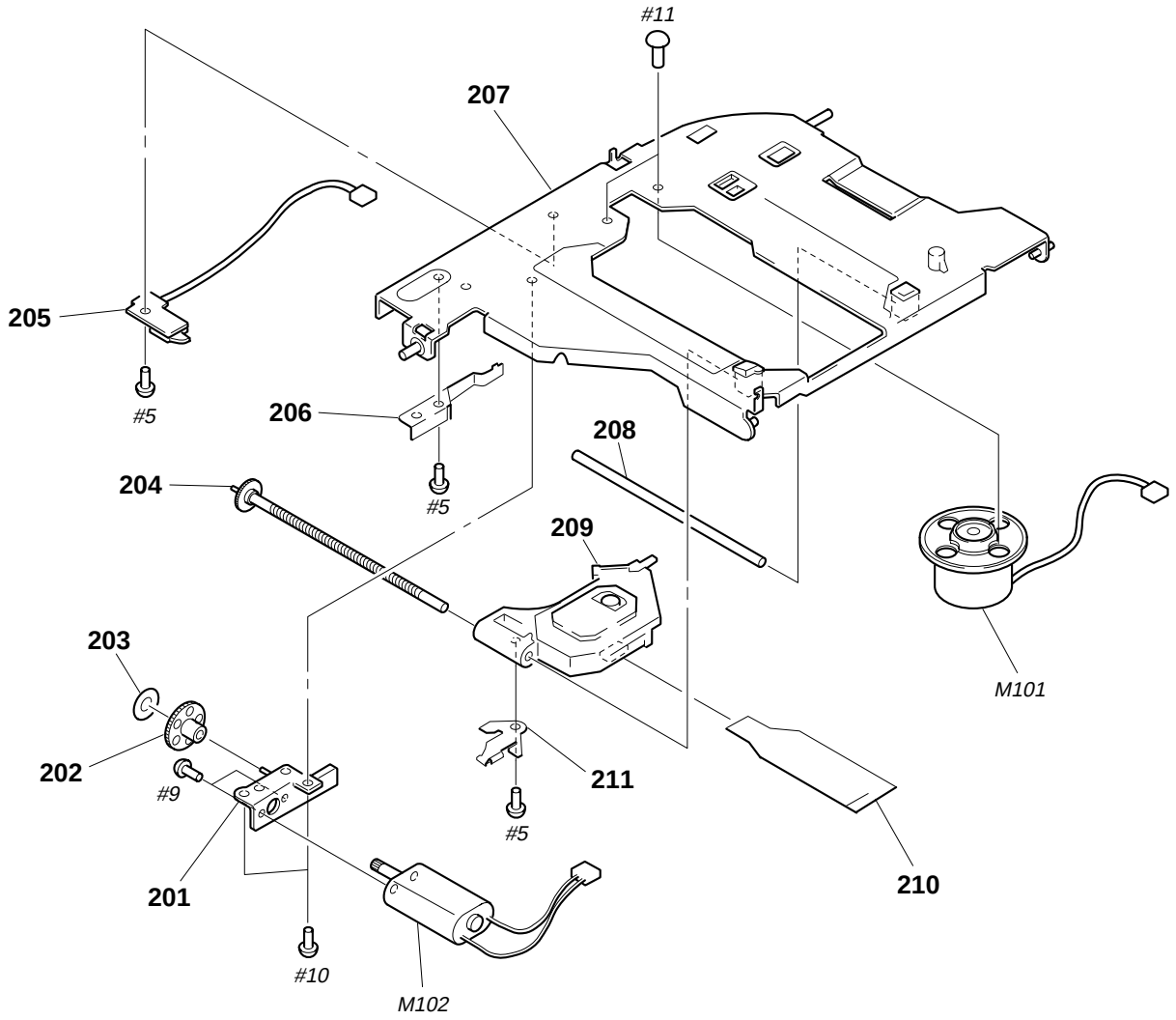
(4) MECHANISM DECK SECTION-3 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
* 151	3-010-269-01	BRACKET (LOAD MOTOR)	
* 152	X-3373-230-1	BASE (WORM) ASSY	
* 153	3-010-270-01	COVER (MOTOR L)	
154	3-321-813-01	WASHER, COTTER POLYETHYLENE	
155	3-010-248-01	GEAR (WORM LOAD 1)	
156	3-573-936-00	STOPPER, REEL	
157	3-010-255-01	ARM (LSW)	
* 158	A-3309-786-A	RF BOARD, COMPLETE	
159	A-3228-939-A	MAIN ASSY, CHASSIS (ELV)	
160	3-010-242-01	RETAINER (DISC)	

Ref. No.	Part No.	Description	Remark
* 161	3-010-243-01	BRACKET (CP)	
162	3-736-073-01	SLIDER, POLYETHYLENE	
163	3-010-251-01	ARM (CONVERSION AB)	
* 164	X-3373-232-1	LEVER (LOCK 3) ASSY	
165	3-918-103-01	SCREW +P2 × 3	
166	X-3373-552-1	GEAR (LOAD 1) ASSY	
167	3-010-254-01	SHAFT (ROTARY PREVENTION C)	
168	3-010-253-01	GEAR (LO MINI)	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	

(5) MECHANISM DECK SECTION-4 (MG-250A-137)



Ref. No.	Part No.	Description	Remark
201	X-3373-229-1	BASE (SLED) ASSY	
202	3-010-258-01	GEAR (SLED MID)	
203	3-573-936-00	STOPPER, REEL	
204	A-3291-958-A	SHAFT (SLED) ASSY	
* 205	1-664-104-11	SW BOARD	
206	3-010-263-01	DETENT (SHAFT THRUST)	
* 207	X-3373-225-1	BASE (OP) ASSY	
208	3-010-261-01	SHAFT (GUIDE S)	
⚠209	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
210	1-664-626-11	OP FLEXIBLE BOARD	
211	3-010-262-01	DETENT (SLED)	
M101	A-3301-067-A	MOTOR (SP) ASSY, D.C. (SPINDLE)	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	1-664-798-11	DIGITAL OUT BOARD				
		**********				
*	3-011-205-01	BRACKET (LIGHT)				
		< CAPACITOR >				
C801	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
		< CONNECTOR >				
CN801	1-770-621-21	PIN, CONNECTOR 4P				
		< IC >				
IC801	8-749-923-53	IC TOTX193 (OPTICAL DIGITAL OUT)				
		< RESISTOR >				
R801	1-216-832-11	METAL CHIP	8.2K	5%	1/16W	
		< SWITCH >				
SW801	1-571-478-11	SWITCH, SLIDE (DIGITAL/ANALOG)				
**********						
*	1-664-797-11	JACK BOARD				
		**********				
		< CAPACITOR >				
C901	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C904	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C905	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C906	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
		< CONNECTOR >				
CN901	1-779-077-11	PLUG, CONNECTOR (SONY BUS/AUDIO OUT)				
CN902	1-770-621-21	PIN, CONNECTOR 4P				
CN903	1-779-321-11	CONNECTOR, FPC 16P				
		< FERRITE BEAD >				
FB901	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)				
FB903	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)				
		< IC >				
IC901	1-532-686-21	LINK, IC (2.7A)				
		< RESISTOR >				
R901	1-216-295-00	CONDUCTOR, CHIP	(2012)			
**********						
*	A-3309-810-A	MAIN BOARD, COMPLETE				
		**********				
*	3-012-099-01	HOLDER (TR2)				
		< CAPACITOR >				
C101	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C102	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C103	1-163-035-00	CERAMIC CHIP	0.047uF		50V	
C104	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	
C105	1-163-001-11	CERAMIC CHIP	220PF	10%	50V	
C106	1-135-214-21	TANTAL. CHIP	4.7uF	20%	20V	
C107	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C201	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C202	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C203	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C204	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C301	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C303	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C304	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C305	1-163-029-11	CERAMIC CHIP	0.0047uF		50V	
C306	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C307	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V	

MAIN

Ref. No.	Part No.	Description			Remark
C309	1-125-701-11	CAPACITOR	0.047F		5.5V
C310	1-104-953-11	ELECT	47uF	20%	16V
C311	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C312	1-115-650-11	ELECT	47uF	20%	16V
C314	1-104-953-11	ELECT	47uF	20%	16V
C315	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C316	1-115-466-00	ELECT	1000uF	20%	16V
C317	1-115-651-11	ELECT	100uF	20%	16V
C318	1-115-651-11	ELECT	100uF	20%	16V
C319	1-104-953-11	ELECT	47uF	20%	16V
C320	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C321	1-115-650-11	ELECT	47uF	20%	16V
C322	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C401	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C404	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C405	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C501	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C502	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C503	1-125-701-11	CAPACITOR	0.047F		5.5V
C504	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C602	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C604	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C605	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C606	1-104-953-11	ELECT	47uF	20%	16V
C608	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C609	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C611	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C612	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C613	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C614	1-115-650-11	ELECT	47uF	20%	16V
C615	1-115-650-11	ELECT	47uF	20%	16V
C616	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C617	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C618	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C619	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C620	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
		< CONNECTOR >			
CN101	1-770-351-11	CONNECTOR, FPC 26P			
CN301	1-774-679-21	CONNECTOR, FPC 16P			
CN302	1-580-055-21	PIN, CONNECTOR 2P			
		< DIODE >			
D301	8-719-975-40	DIODE RB411D			
D302	8-719-422-64	DIODE MA8062-M			
D303	8-719-422-64	DIODE MA8062-M			
D304	8-719-975-40	DIODE RB411D			
D305	8-719-975-40	DIODE RB411D			
D306	8-719-801-78	DIODE 1SS184			
D307	8-719-422-64	DIODE MA8062-M			
D308	8-719-801-78	DIODE 1SS184			
D309	8-719-210-33	DIODE EC10DS2			
D310	8-719-801-78	DIODE 1SS184			
D311	8-719-038-48	DIODE 1SS319 (TE85R)			
D312	8-719-422-62	DIODE MA8062-L-TX			
D313	8-719-210-33	DIODE EC10DS2			
D501	8-719-801-78	DIODE 1SS184			
D502	8-719-975-40	DIODE RB411D			
		< FERRITE BEAD >			
FB401	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)			
FB402	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)			
FB403	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)			
FB404	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)			
FB601	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)			
FB602	1-414-813-21	INDUCTOR, MICRO			
FB603	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)			
FB604	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)			
FB605	1-500-445-21	INDUCTOR, MICRO (CHIP TYPE)			
		< FILTER >			
FL601	1-239-400-11	FILTER, CHIP EMI			
		< IC >			
IC101	8-752-384-15	IC CXD2530Q			
IC201	8-752-883-92	IC CXP84332-057Q			
IC202	8-759-363-60	IC NM24C16EM8X			
IC301	8-759-040-83	IC BA6287F			
IC302	8-759-444-86	IC BA8272F-E2			
IC303	8-759-054-12	IC PQ09RA1			
IC304	8-759-443-41	IC RH5VL40AA-T1C			
IC305	8-759-231-53	IC TA7805S			
IC306	8-759-284-66	IC TA78M08F (TE16L)			
IC307	8-759-284-63	IC TA78M05F (TE16L)			
IC401	8-752-374-09	IC CXD2522Q			
IC402	8-759-295-34	IC M5M44400BTP-7			
IC403	8-759-242-76	IC TC7W08F			
IC501	8-752-882-50	IC CXP83413-035Q			
IC502	8-752-364-91	IC CXK58257BM-10LL-T6			
IC503	8-759-243-19	IC TC7SU04F			
IC601	8-759-455-21	IC AK4321-VF-E2			
IC602	8-759-064-92	IC NJM5532M-D			
IC603	8-759-243-19	IC TC7SU04F			

Ref. No.	Part No.	Description			Remark
IC604	8-759-243-19	IC TC7SU04F			
		< COIL >			
L601	1-410-381-11	INDUCTOR CHIP 10uH			
		< TRANSISTOR >			
Q201	8-729-020-67	TRANSISTOR XN1A312-TX			
Q301	8-729-027-31	TRANSISTOR DTA124EKA-T146			
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q303	8-729-016-11	TRANSISTOR 2SD1507M			
Q304	8-729-027-52	TRANSISTOR DTC124EKA-T146			
Q305	8-729-016-83	TRANSISTOR 2SB1446			
Q601	8-729-027-52	TRANSISTOR DTC124EKA-T146			
Q602	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q603	8-729-015-39	TRANSISTOR DTC323TK			
Q604	8-729-015-39	TRANSISTOR DTC323TK			
		< RESISTOR >			
R101	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R102	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R103	1-216-113-00	METAL CHIP	470K	5%	1/10W
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R105	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W
R107	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W
R201	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R202	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R203	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R204	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R205	1-216-081-00	METAL CHIP	22K	5%	1/10W
R206	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R207	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R208	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R209	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R210	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R211	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R212	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R213	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R214	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R215	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R216	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R217	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R218	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R301	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R302	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R303	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R304	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R306	1-216-077-00	METAL CHIP	15K	5%	1/10W
R307	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R308	1-216-073-00	METAL CHIP	10K	5%	1/10W
R309	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R310	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R311	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R312	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R313	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R314	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R315	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R401	1-216-033-00	METAL CHIP	220	5%	1/10W
R402	1-216-105-00	METAL CHIP	220K	5%	1/10W
R501	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R502	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R503	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R504	1-216-073-00	METAL CHIP	10K	5%	1/10W
R601	1-216-041-00	METAL GLAZE	470		1/10W
R603	1-216-080-00	METAL GLAZE	20K		1/10W
R604	1-216-080-00	METAL GLAZE	20K		1/10W
R605	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R606	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R607	1-216-083-00	METAL GLAZE	27K		1/10W
R608	1-216-083-00	METAL GLAZE	27K		1/10W
R609	1-216-073-00	METAL CHIP	10K	5%	1/10W
R611	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R612	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R613	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R614	1-216-025-00	METAL GLAZE	100	5%	1/10W
R615	1-216-025-00	METAL GLAZE	100	5%	1/10W
R616	1-216-270-00	METAL GLAZE	1M	5%	1/8W
		< VARIABLE RESISTOR >			
RV201	1-241-225-11	RES, ADJ, METAL GRAZE 22K			
RV202	1-225-412-11	RES, VAR, SLIDE 10K (LINER POSITION SENSOR)			
		< SWITCH >			
SW201	1-762-455-21	SWITCH, PUSH (1KEY) (MAGAZINE EJECT END DETECT)			
SW202	1-762-455-21	SWITCH, PUSH (1KEY) (MAGAZINE IN/OUT DETECT)			
SW301	1-571-532-21	SWITCH, TACTIL (⏏)			
		< THERMISTOR >			
TH201	1-810-510-21	THERMISTOR NTH5G35A472K01TE			

MAIN **RF**

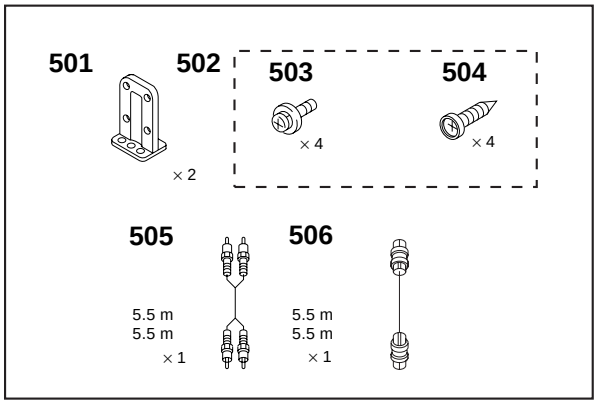
Ref. No.	Part No.	Description				Remark
		< VIBRATOR >				
X201	1-767-261-21	VIBRATOR, CERAMIC (8MHz)				
X501	1-767-510-21	VIBRATOR, CERAMIC (10MHz)				
X601	1-767-366-21	VIBRATOR, CERAMIC (16MHz)				
**********						
*	A-3309-786-A	RF BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C12	1-113-500-11	TANTAL. CHIP	100uF	20%	10V	
C13	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C14	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C15	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	
C16	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C17	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C18	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V	
C19	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C21	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C22	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C23	1-113-682-11	TANTAL. CHIP	33uF	20%	10V	
C24	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C25	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C28	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	
C29	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C31	1-113-987-11	TANTAL. CHIP	4.7uF	20%	25V	
C32	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C33	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C35	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V	
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C37	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C38	1-104-913-11	TANTAL. CHIP	10uF	20%	16V	
C39	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C40	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C43	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C53	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C54	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V	
C56	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C57	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C58	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C60	1-104-914-11	TANTAL. CHIP	22uF	20%	16V	
		< JACK >				
CNJ11	1-778-776-21	CONNECTOR, FPC 17P				
CNJ12	1-778-777-21	CONNECTOR, FPC 26P				
		< CONNECTOR >				
CNP11	1-580-055-21	PIN, CONNECTOR 2P				
CNP51	1-580-055-21	PIN, CONNECTOR 2P				
CNP52	1-580-055-21	PIN, CONNECTOR 2P				
CNP53	1-580-055-21	PIN, CONNECTOR 2P				
		< IC >				
IC11	8-752-080-62	IC CXA1992AR				
IC51	8-759-071-79	IC BA6297AFP				
IC52	8-759-040-83	IC BA6287F				
		< TRANSISTOR >				
Q11	8-729-141-48	TRANSISTOR 2SB624-BV345				
		< RESISTOR >				
R11	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R12	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R13	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R14	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R16	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R17	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R18	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R22	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R25	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R26	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R27	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R28	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R30	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R31	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R32	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R33	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R34	1-216-855-11	METAL CHIP	680K	5%	1/16W	
R35	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R36	1-216-836-11	METAL CHIP	18K	5%	1/16W	
R37	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R38	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R39	1-216-847-11	METAL CHIP	150K	5%	1/16W	
R40	1-218-273-11	METAL GLAZE	510K	5%	1/16W	
R41	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R42	1-216-851-11	METAL CHIP	330K	5%	1/16W	

Ref. No.	Part No.	Description			Remark
R43	1-216-849-11	METAL CHIP	220K	5%	1/16W
R44	1-216-846-11	METAL CHIP	120K	5%	1/16W
R45	1-216-837-11	METAL CHIP	22K	5%	1/16W
R46	1-216-847-11	METAL CHIP	150K	5%	1/16W
R47	1-216-834-11	METAL CHIP	12K	5%	1/16W
R48	1-216-845-11	METAL CHIP	100K	5%	1/16W
R49	1-216-101-00	METAL CHIP	150K	5%	1/10W
R50	1-216-845-11	METAL CHIP	100K	5%	1/16W
R51	1-216-073-00	METAL CHIP	10K	5%	1/10W
R52	1-216-093-00	METAL CHIP	68K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W
R55	1-216-073-00	METAL CHIP	10K	5%	1/10W
R56	1-216-093-00	METAL CHIP	68K	5%	1/10W
R57	1-216-081-00	METAL CHIP	22K	5%	1/10W
R58	1-216-093-00	METAL CHIP	68K	5%	1/10W
R59	1-216-073-00	METAL CHIP	10K	5%	1/10W
R60	1-216-073-00	METAL CHIP	10K	5%	1/10W
R61	1-216-073-00	METAL CHIP	10K	5%	1/10W
R62	1-216-085-00	METAL CHIP	33K	5%	1/10W
R63	1-216-073-00	METAL CHIP	10K	5%	1/10W
R64	1-216-073-00	METAL CHIP	10K	5%	1/10W
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV14	1-225-206-11	RES, ADJ, CERMET 22K			
		< SWITCH >			
SW11	1-762-946-11	SWITCH, PUSH (1 KEY) (LOAD IN)			
SW12	1-762-946-11	SWITCH, PUSH (1 KEY) (LOAD OUT)			
**********					
*	1-664-104-11	SW BOARD			
		********			
		< SWITCH >			
SW1	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)			
**********					

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
3	1-664-796-11	JACK FLEXIBLE BOARD	
16	1-664-627-11	MAIN FLEXIBLE BOARD	
⚠209	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
210	1-664-626-11	OP FLEXIBLE BOARD	
M101	A-3301-067-A	MOTOR (SP) ASSY, D.C. (SPINDLE)	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	
M104	A-3301-123-A	ELJ MOTOR ASSY, (ELEVATOR)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-861-01	SCREW +BVTT 2.6X5 (S)	
#2	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#3	7-621-772-08	SCREW +B 2X3	
#4	7-627-553-27	SCREW, PRECISION +P 2X2.5	
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2	
#7	7-628-253-00	+PS 2X4	
#8	7-624-102-04	STOP RING 1.5, TYPE-E	
#9	7-627-850-28	SCREW, PRECISION +P 1.4X3	
#10	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#11	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE 3	
#12	7-624-104-04	STOP RING 2.0 (E TYPE)	
#13	7-685-853-01	SCREW +BVTT 2X6	
#14	7-627-553-18	SCREW, PRECISION +P 2X2	
#15	7-621-255-45	SCREW +P 2X6	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	3-859-229-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (US, Canadian, E)	
	3-859-229-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE) (AEP, UK)	
	3-859-229-31	MANUAL, INSTRUCTION (FRENCH, GERMAN, DUTCH, ITALIAN) (AEP, UK, German)	
	X-3373-241-1	MAGAZINE ASSY	
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
501	3-011-778-01	BRACKET (705)	
* 502	X-3369-824-1	SCREW ASSY	
503	7-682-962-01	SCREW +PSW 4X10	
504	Not supplied		
505	1-590-874-11	CORD, CONNECTION (RCA PIN CORD 5.5m)	
506	1-590-519-21	CORD (WITH CONNECTOR) (BUS CABLE 5.5m)	



CDX-805

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject:
1. Installation
2. Mechanical Adjustments
3. Board Modification

(ECN-CS710037)

TABLE OF CONTENTS

1. Installation 2

2. Mechanical Adjustments 6

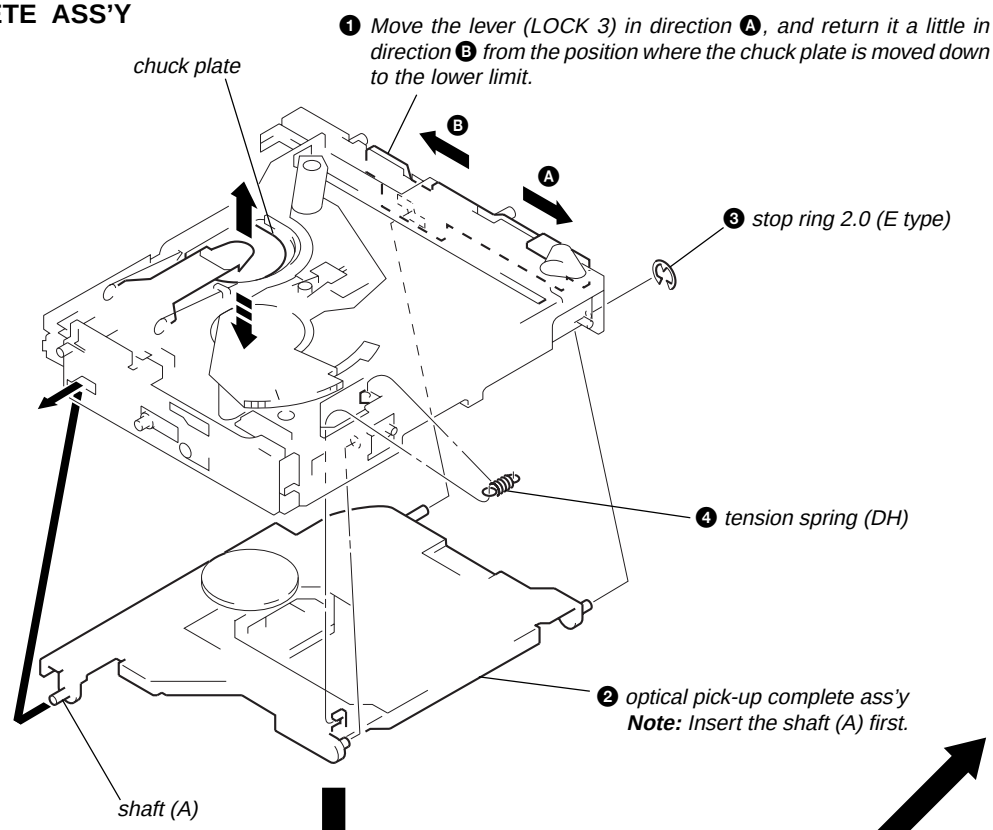
3. Board Modification

3-1. New/Former Discrimination 7
3-2. Printed Wiring Boards –MAIN Section– 9
3-3. Schematic Diagram –MAIN Section– 13
3-4. Printed Wiring Boards –RF Section– 17
3-5. Schematic Diagram –RF Section– 19
3-6. Electrical Parts List 21

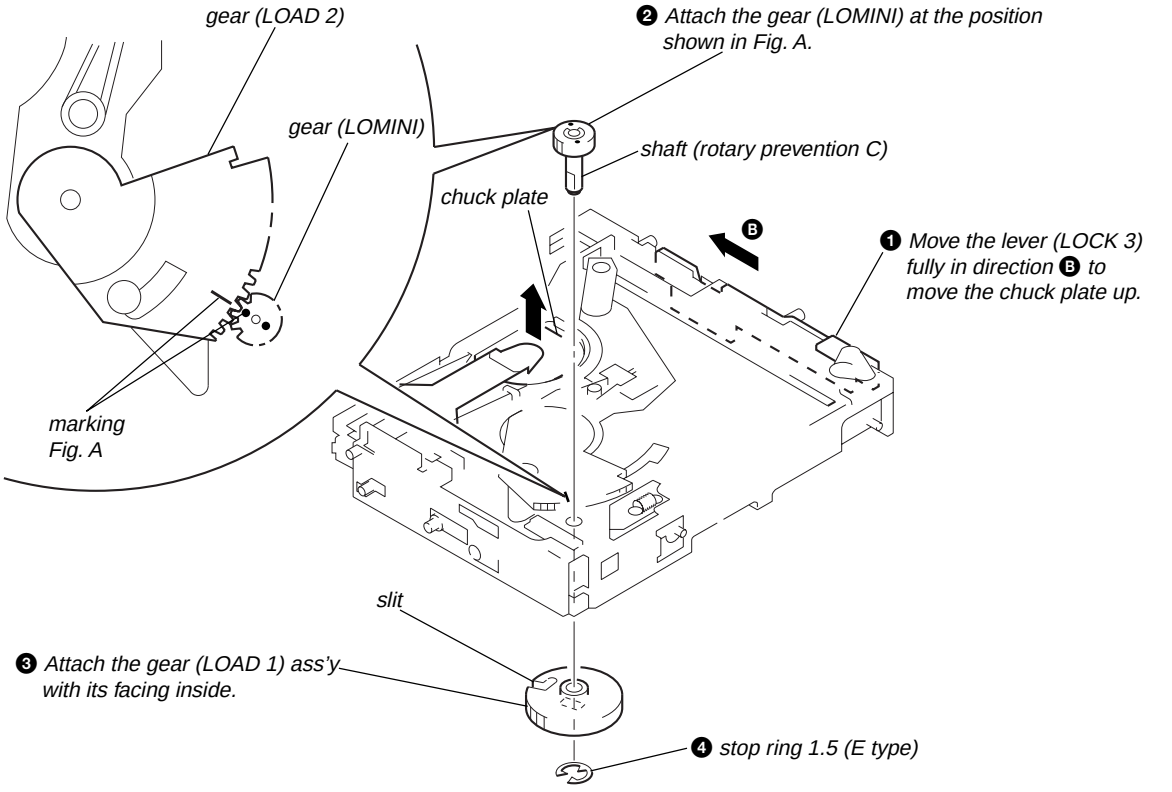
1. INSTALLATION

Note: Follow the assembly procedure in the numerical order given.

OPTICAL PICK-UP COMPLETE ASS'Y

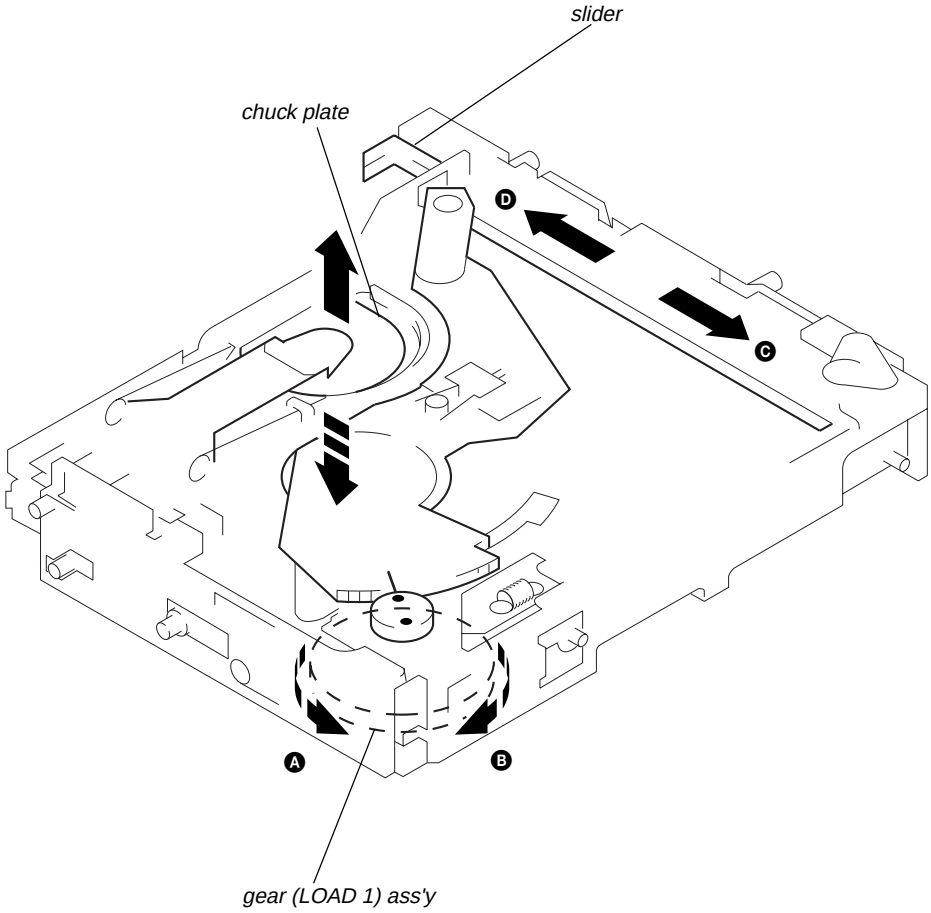

❶ Move the lever (LOCK 3) in direction Ⓐ, and return it a little in direction Ⓑ from the position where the chuck plate is moved down to the lower limit.
chuck plate
Ⓑ
Ⓐ
❸ stop ring 2.0 (E type)
❹ tension spring (DH)
❷ optical pick-up complete ass'y
Note: Insert the shaft (A) first.
shaft (A)

GEAR (LOMINI) / (LOAD 1) ASS'Y

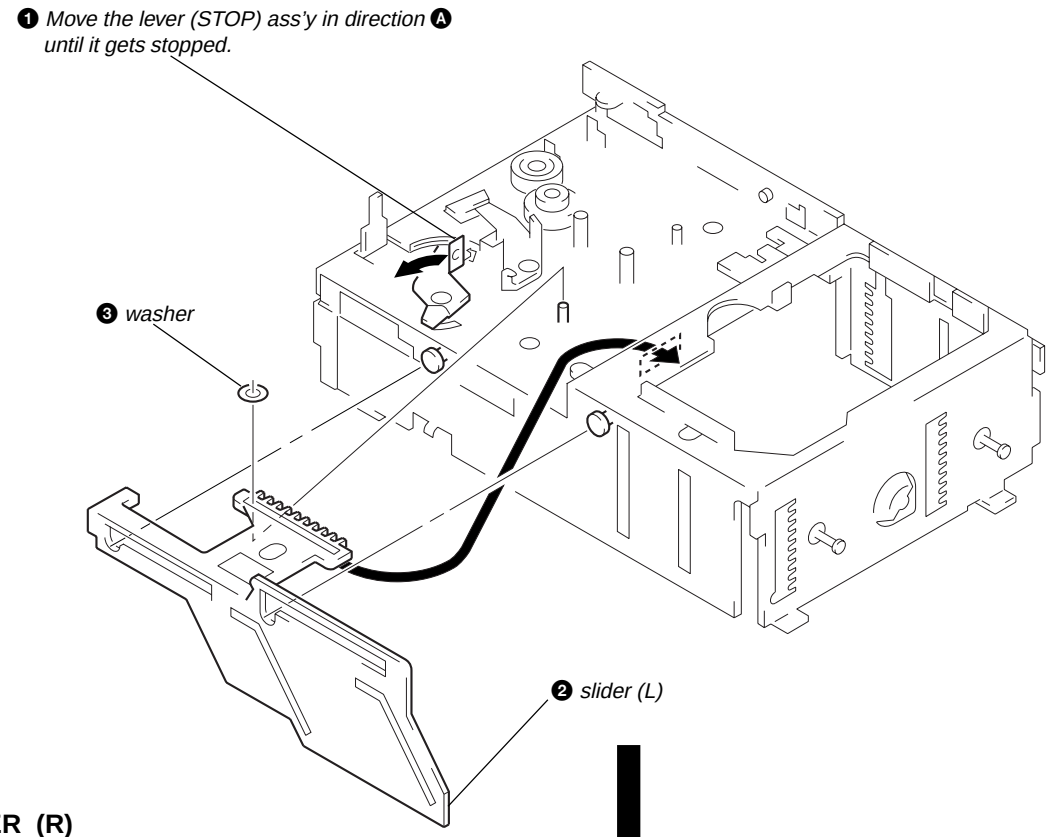

gear (LOAD 2)
gear (LOMINI)
marking
Fig. A
❷ Attach the gear (LOMINI) at the position shown in Fig. A.
shaft (rotary prevention C)
chuck plate
Ⓑ
❶ Move the lever (LOCK 3) fully in direction Ⓑ to move the chuck plate up.
slit
❸ Attach the gear (LOAD 1) ass'y with its facing inside.
❹ stop ring 1.5 (E type)

OPERATION CHECK

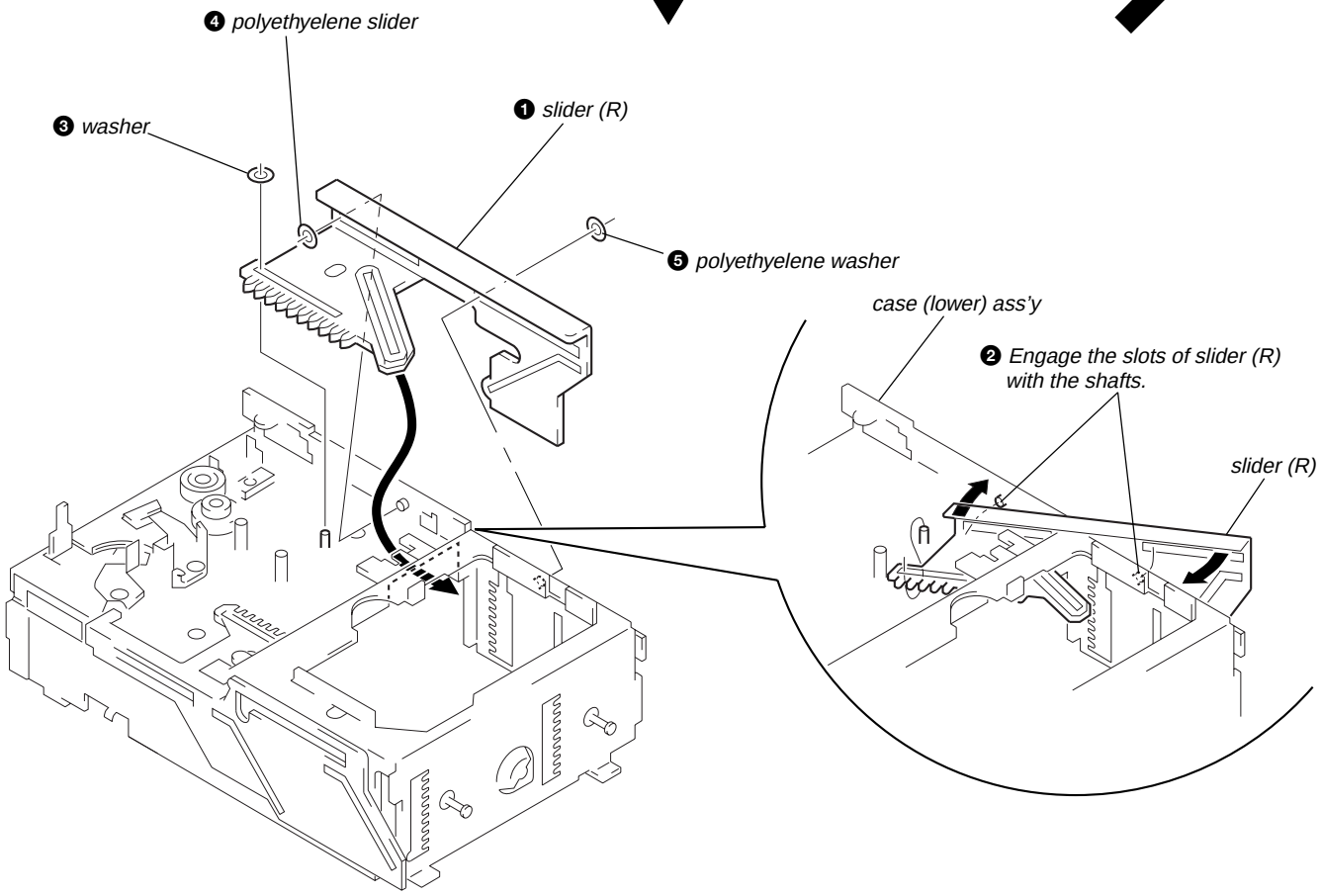
❶ *Confirm that the slider moves in direction Ⓒ to move down the chuck plate if the gear (LOAD 1) is rotated in direction Ⓐ or the chuck plate moves up and the slider moves in direction Ⓓ if the gear is rotated in direction Ⓑ.*



SLIDER (L)

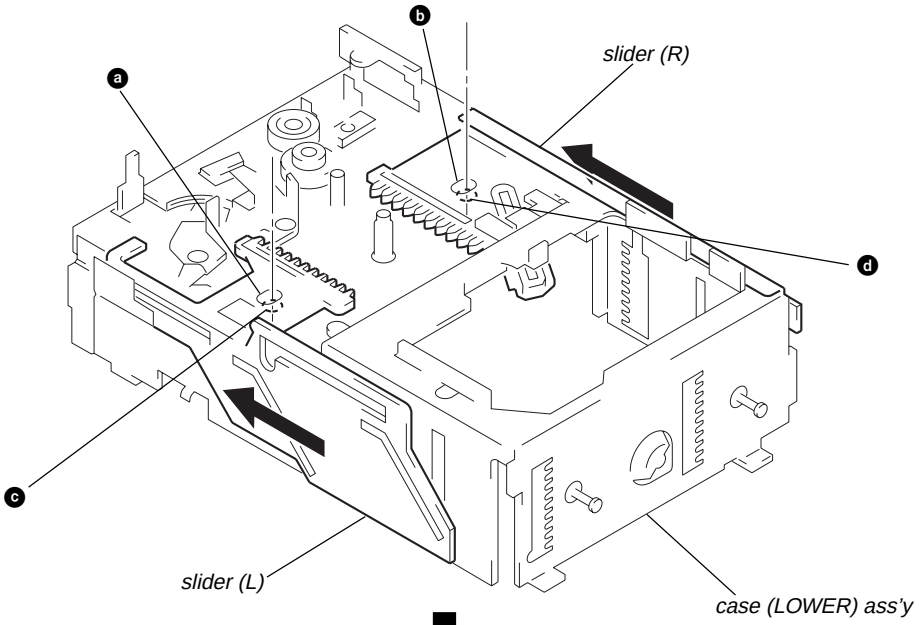


SLIDER (R)

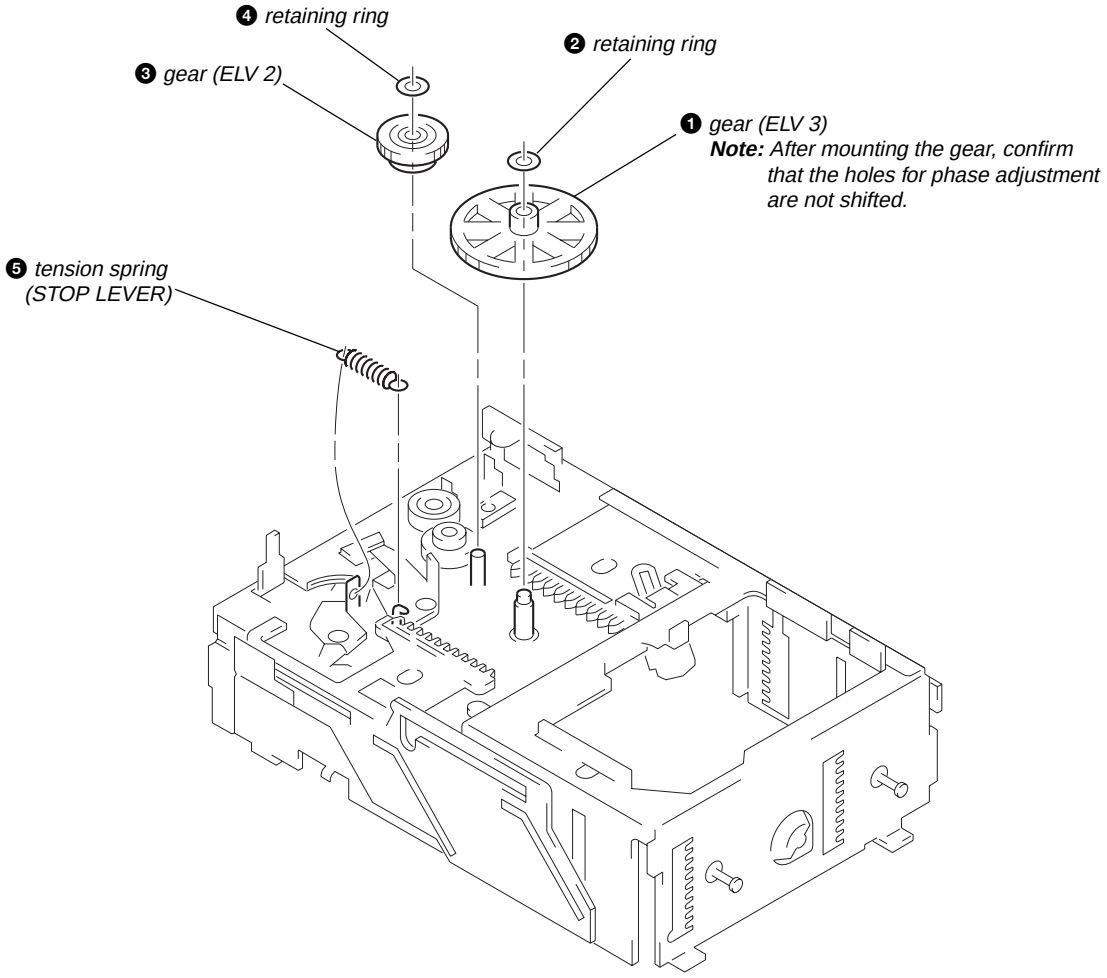


ADJUSTING PHASE OF SLIDERS (L, R)

❶ *Sliding the sliders (L, R) in the arrow direction, meet holes* ⓐ *and* ⓑ *of the sliders (L, R) with holes* ⓒ *and* ⓓ *of the case (LOWER) ass'y.*



GEAR (ELV2) / (ELV3)

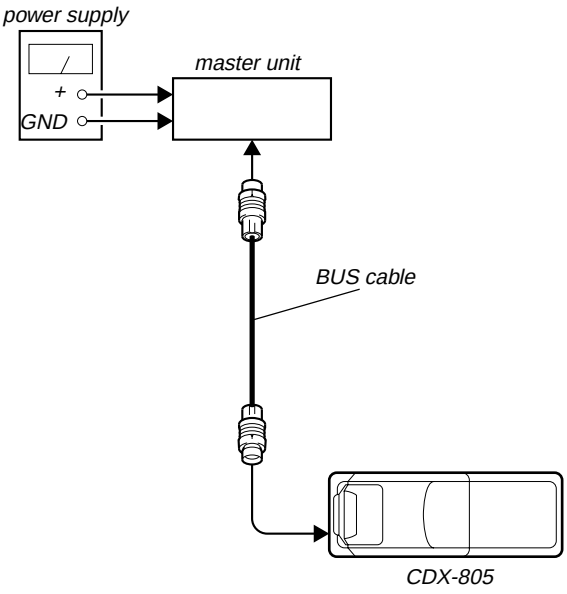

❹ retaining ring
❷ retaining ring
❸ gear (ELV 2)
❶ gear (ELV 3)
Note: After mounting the gear, confirm that the holes for phase adjustment are not shifted.
❺ tension spring (STOP LEVER)

2. MECHANICAL ADJUSTMENTS

Elevator Height (Address) Adjustment

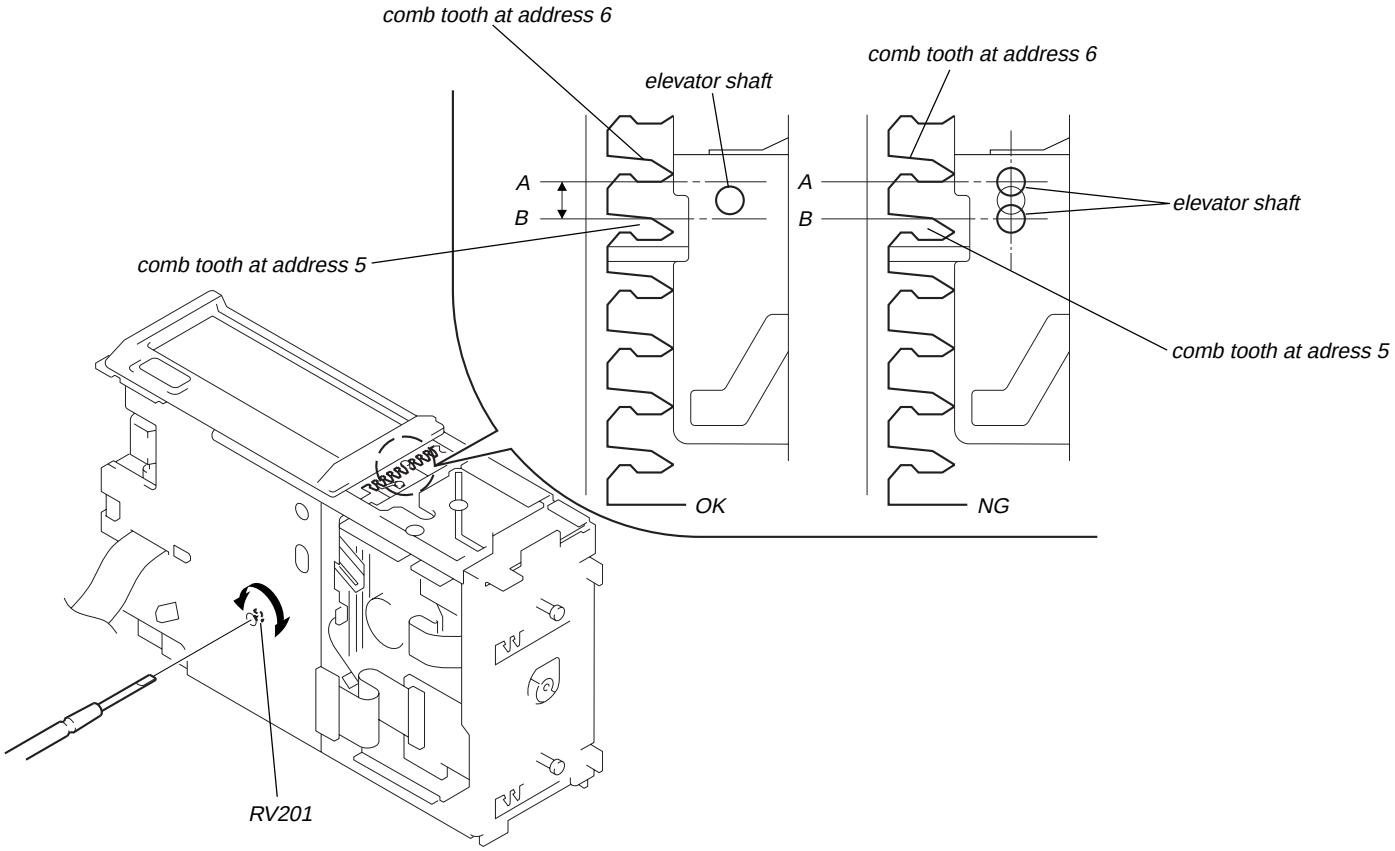
Note: This adjustments is necessary when the system controller (IC201), variable resistor (RV201), slider (R), slider (L), or chassis (ELV) was replaced for any repair.

Connection:



Adjustment Method:

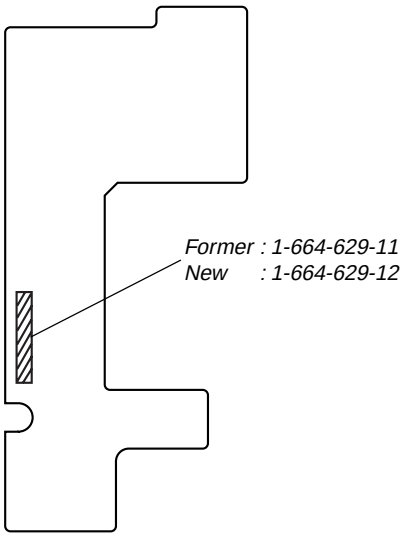
1. Connect this set to the master unit (e.g. MDX-C670/C670RDS), load a disc magazine, and place the set vertically as shown below.
2. Connect the regulated power supply to the master unit, and turn the power on.
3. Press the DISC button on the master unit and select DISC 5.
4. At this time, if the elevator shaft does not position between comb teeth A and B at addresses 5 and 6 as shown below, adjust the following.
5. Press repeatedly the DISC + and – buttons on the master unit so that the elevator shafts moves from address 6 to address 5, or from 5 to 6. At this time, adjust RV201 on the main board so that the elevator shaft positions smoothly between comb teeth A and B.
6. Further, place the set horizontally and make same adjustment as mentioned above.
7. After adjustment at addresses 5 to 6 is finished, check all operations from addresses 1 to 10 with the set placed vertically and horizontally respectively to confirm that the elevator shaft positions in a range between comb teeth A to B.



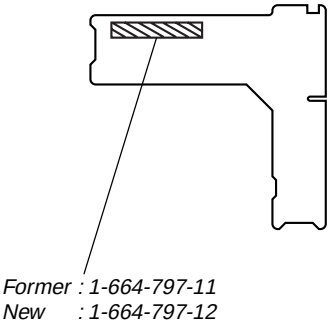
3. BOARD MODIFICATION

3-1. NEW/FORMER DISCRIMINATION

[RF BOARD] – Conductor Side –

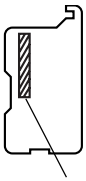


[JACK BOARD] – Conductor Side –

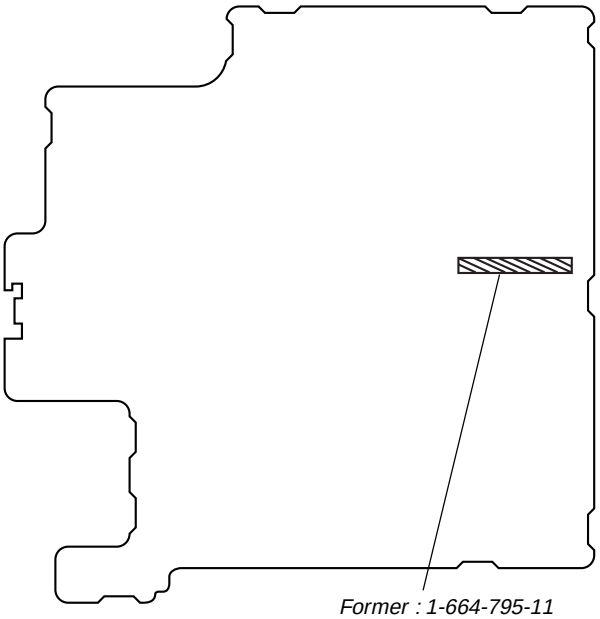


[DIGITAL BOARD]

– Conductor Side –



[MAIN BOARD] – Component Side –



MEMO

• **Semiconductor Location**

Ref. No.	Location
D301	F-12
D302	F-11
D303	F-12
D304	F-10
D305	F-10
D306	G-12
D307	G-12
D308	G-12
D309	F-10
D310	F-11
D311	H-12
D312	F-11
D313	D-10
D314	G-11
D501	G-14
D502	I-13
IC101	C-14
IC201	E-15
IC202	E-16
IC301	G-11
IC302	F-13
IC303	F-25
IC304	H-12
IC305	E-25
IC306	F-14
IC307	D-12
IC401	B-13
IC402	D-13
IC403	C-12
IC501	H-13
IC502	H-14
IC503	G-14
IC601	E-13
IC602	E-12
IC603	D-14
IC604	D-13
IC801	G-3
Q201	F-16
Q301	G-12
Q302	G-12
Q303	I-22
Q304	C-10
Q305	D-24
Q601	D-11
Q602	D-11
Q603	E-11
Q604	D-11

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

【JACK BOARD】 (COMPONENT SIDE)

【JACK BOARD】 (CONDUCTOR SIDE)

【JACK FLEXIBLE BOARD】

【DIGITAL OUT BOARD】 (COMPONENT SIDE)

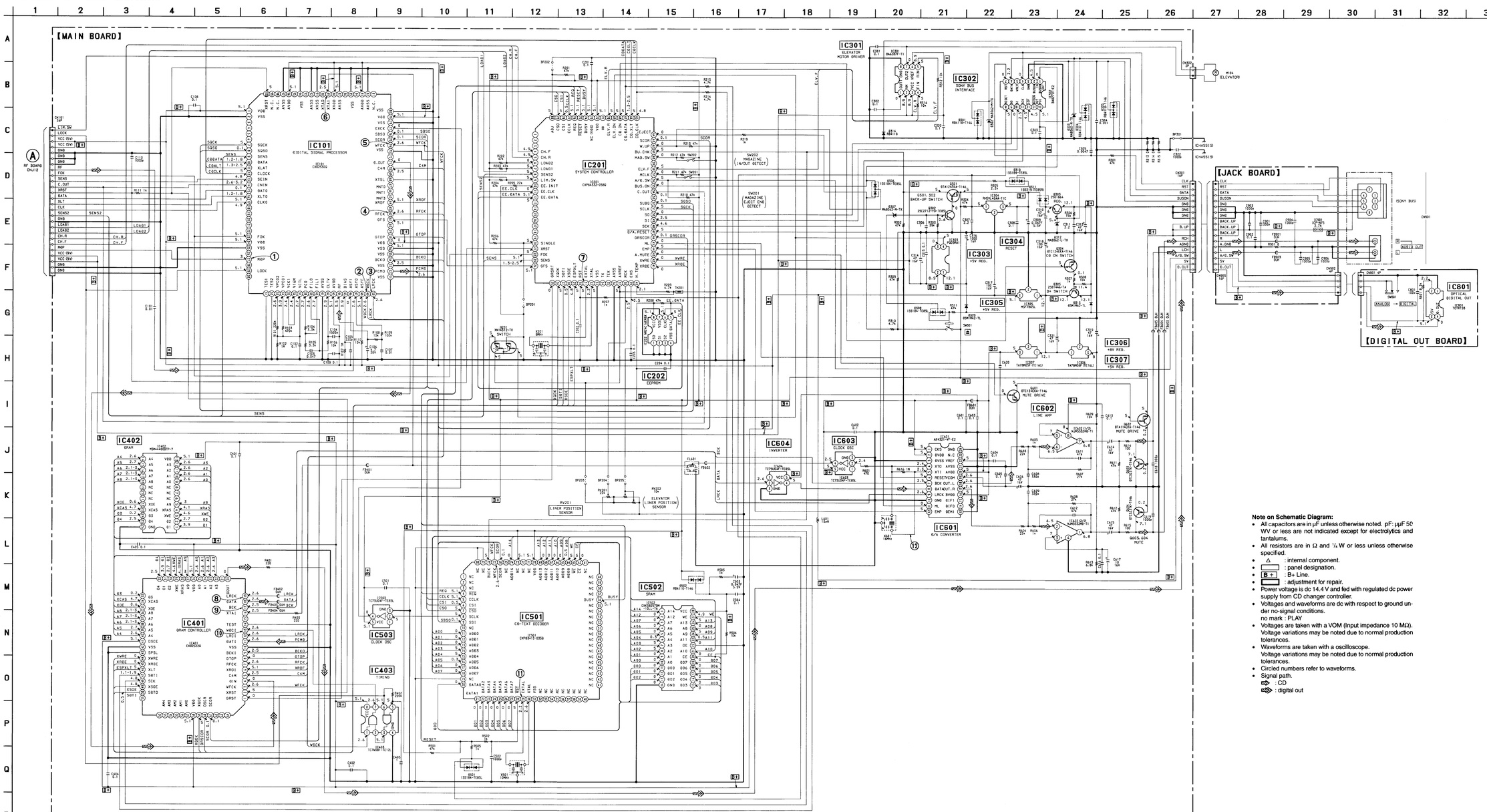
【DIGITAL OUT BOARD】 (CONDUCTOR SIDE)

【MAIN BOARD】 (COMPONENT SIDE)

【MAIN FLEXIBLE BOARD】

【MAIN BOARD】 (CONDUCTOR SIDE)

3-3. SCHEMATIC DIAGRAM – MAIN Section –



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▬ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
  ⇨ : digital out

• **Semiconductor Location**

Ref. No.	Location
IC11	C-6
IC51	B-7
IC52	G-4
Q11	D-6

Note on Printed Wiring Board:
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

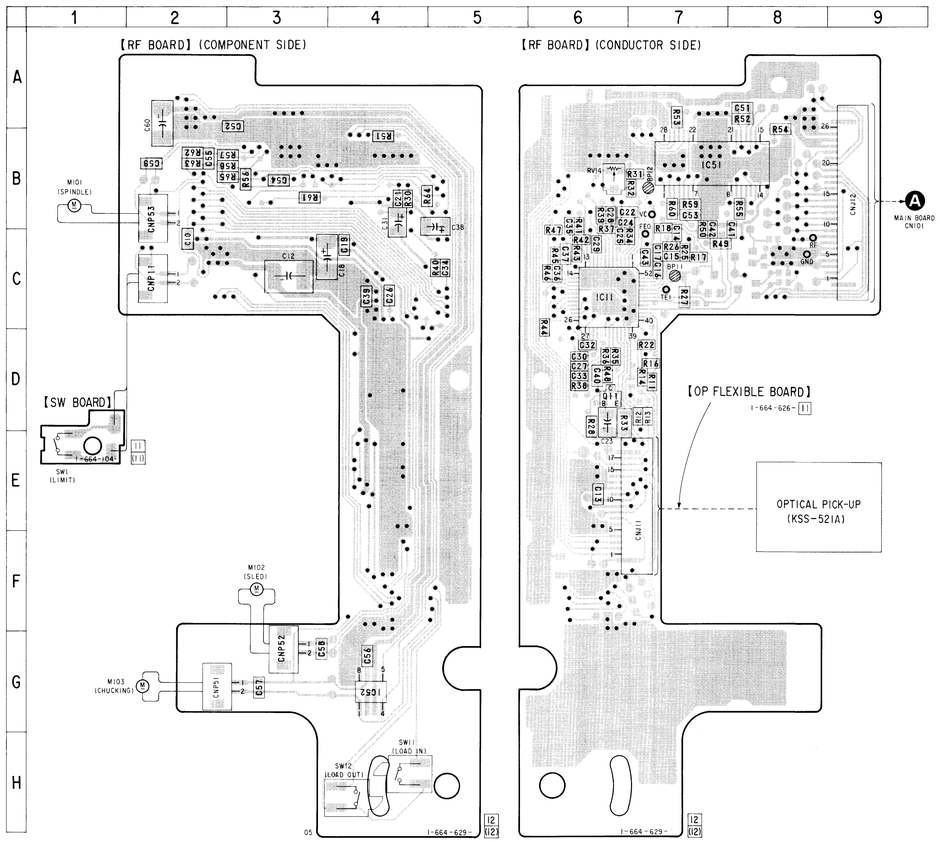
Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

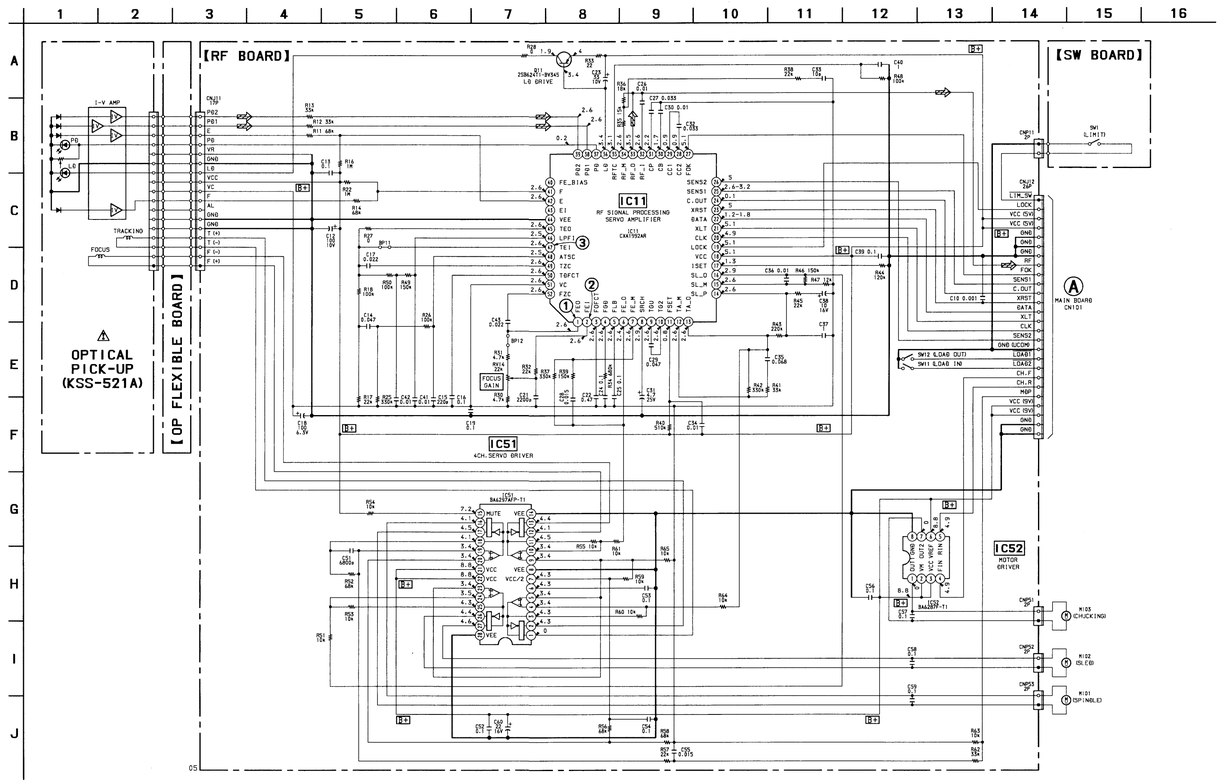
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions. no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path. ⇨ : CD

3-4. PRINTED WIRING BOARDS – RF Section –



3-5. SCHEMATIC DIAGRAM – RF Section –



3-6. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-664-798-12	DIGITAL OUT BOARD			
		**********			
*	3-011-205-01	BRACKET (LIGHT)			
		< CAPACITOR >			
C801	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	
		< CONNECTOR >			
CN801	1-770-621-21	PIN, CONNECTOR 4P			
		< IC >			
IC801	8-749-923-53	IC TOTX193			
		< RESISTOR >			
R801	1-216-832-11	METAL CHIP	8.2K	5% 1/16W	
		< SWITCH >			
SW801	1-571-478-11	SWITCH, SLIDE (ANALOG/DIGITAL)			
**********					
*	1-664-797-12	JACK BOARD			
		**********			
		< CAPACITOR >			
C901	1-163-263-11	CERAMIC CHIP	330PF	5% 50V	
C902	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C904	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C905	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C906	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
		< CONNECTOR >			
CN901	1-779-077-11	PLUG, CONNECTOR (SONY BUS/AUDIO OUT)			
CN902	1-770-621-21	PIN, CONNECTOR 4P			
CN903	1-779-321-11	CONNECTOR, FPC 16P			
		< FERRITE BEAD >			
FB901	1-500-445-21	INDUCTOR	0uH		
FB903	1-500-445-21	INDUCTOR	0uH		
		< IC LINK >			
IC901	1-532-686-21	LINK, IC			
		< CHIP CONDUCTOR >			
R901	1-216-295-00	CONDUCTOR, CHIP		(2012)	
**********					
*	A-3313-205-A	MAIN BOARD, COMPLETE			
		**********			
*	3-012-099-01	HOLDER (TR2)			
		< CAPACITOR >			
C101	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C103	1-163-035-00	CERAMIC CHIP	0.047uF	50V	
C104	1-163-011-11	CERAMIC CHIP	0.0015uF	10% 50V	
C105	1-163-001-11	CERAMIC CHIP	220PF	10% 50V	
C106	1-135-214-21	TANTAL. CHIP	4.7uF	20% 20V	
C107	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C108	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C109	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C110	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C201	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C202	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C203	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C204	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C301	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C302	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C303	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C304	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V	
C305	1-163-029-11	CERAMIC CHIP	0.0047uF	50V	
C306	1-109-982-11	CERAMIC CHIP	1uF	10% 10V	
C307	1-164-505-11	CERAMIC CHIP	2.2uF	16V	

MAIN

Ref. No.	Part No.	Description				Remark
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C309	1-125-701-11	CAPACITOR	0.047F		5.5V	
C310	1-104-953-11	ELECT	47uF	20%	16V	
C311	1-164-505-11	CERAMIC CHIP	2.2uF		16V	
C312	1-115-650-11	ELECT	47uF	20%	16V	
C314	1-104-953-11	ELECT	47uF	20%	16V	
C315	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C316	1-115-466-00	ELECT	1000uF	20%	16V	
C317	1-115-651-11	ELECT	100uF	20%	16V	
C318	1-115-651-11	ELECT	100uF	20%	16V	
C319	1-104-953-11	ELECT	47uF	20%	16V	
C320	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C321	1-115-650-11	ELECT	47uF	20%	16V	
C322	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C401	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C403	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C404	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C405	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C501	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C502	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C503	1-125-701-11	CAPACITOR	0.047F		5.5V	
C504	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C602	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C604	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C605	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C606	1-104-953-11	ELECT	47uF	20%	16V	
C608	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C609	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C611	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C612	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C613	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C614	1-115-650-11	ELECT	47uF	20%	16V	
C615	1-115-650-11	ELECT	47uF	20%	16V	
C616	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C617	1-104-913-11	TANTAL. CHIP	10uF	20%	16V	
C618	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C619	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C620	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
		< CONNECTOR >				
CN101	1-770-351-11	CONNECTOR, FPC 26P				
CN301	1-774-679-21	CONNECTOR, FPC 16P				
CN302	1-580-055-21	PIN, CONNECTOR 2P				
		< DIODE >				
D301	8-719-975-40	DIODE RB411D				
D302	8-719-422-64	DIODE MA8062-M				
D303	8-719-422-64	DIODE MA8062-M				
D304	8-719-975-40	DIODE RB411D				
D305	8-719-975-40	DIODE RB411D				
D306	8-719-801-78	DIODE 1SS184				
D307	8-719-422-64	DIODE MA8062-M				
D308	8-719-801-78	DIODE 1SS184				
D309	8-719-210-33	DIODE EC10DS2				
D310	8-719-801-78	DIODE 1SS184				
D311	8-719-038-48	DIODE 1SS319 (TE85R)				
D312	8-719-422-62	DIODE MA8062-L-TX				
D313	8-719-210-33	DIODE EC10DS2				
D314	8-719-975-40	DIODE RB411D				
D501	8-719-801-78	DIODE 1SS184				
D502	8-719-975-40	DIODE RB411D				
		< FERRITE BEAD >				
FB401	1-500-445-21	INDUCTOR 0uH				
FB402	1-500-445-21	INDUCTOR 0uH				
FB403	1-500-445-21	INDUCTOR 0uH				
FB404	1-500-445-21	INDUCTOR 0uH				
FB601	1-500-445-21	INDUCTOR 0uH				
FB602	1-414-813-21	INDUCTOR, MICRO (CHIP TYPE)				
FB603	1-500-445-21	INDUCTOR 0uH				
FB604	1-500-445-21	INDUCTOR 0uH				
FB605	1-500-445-21	INDUCTOR 0uH				
		< FILTER >				
FL601	1-239-400-11	FILTER, CHIP EMI				
		< IC >				
IC101	8-752-384-15	IC CXD2530Q				
IC201	8-752-885-92	IC CXP84332-058Q				
IC202	8-759-253-82	IC AT24C16N-10SI-TR				
IC301	8-759-040-83	IC BA6287F				
IC302	8-759-444-86	IC BA8272F-E2				
IC303	8-759-054-12	IC PQ09RA1				
IC304	8-759-443-41	IC RH5VL40AA-T1C				
IC305	8-759-231-53	IC TA7805S				
IC306	8-759-284-66	IC TA78M08F (TE16L)				
IC307	8-759-284-63	IC TA78M05F (TE16L)				
IC401	8-752-374-09	IC CXD2522Q				
IC402	8-759-295-34	IC M5M44400BTP-7				
IC403	8-759-242-76	IC TC7W08F				
IC501	8-752-882-50	IC CXP83413-035Q				
IC502	8-752-364-91	IC CXK58257BM-10LL-T6				
IC503	8-759-243-19	IC TC7SU04F				
IC601	8-759-455-21	IC AK4321-VF-E2				
IC602	8-759-064-92	IC NJM5532M-D				
IC603	8-759-243-19	IC TC7SU04F				
IC604	8-759-243-19	IC TC7SU04F				
		< COIL >				
L601	1-410-381-11	INDUCTOR CHIP 10uH				
		< TRANSISTOR >				
Q201	8-729-020-67	TRANSISTOR XN1A312-TX				

Ref. No.	Part No.	Description				Remark
Q301	8-729-027-31	TRANSISTOR	DTA124EKA-T146			
Q302	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q303	8-729-016-11	TRANSISTOR	2SD1507M			
Q304	8-729-901-00	TRANSISTOR	DTC124EK			
Q305	8-729-016-83	TRANSISTOR	2SB1446			
Q601	8-729-901-00	TRANSISTOR	DTC124EK			
Q602	8-729-027-23	TRANSISTOR	DTA114EKA-T146			
Q603	8-729-015-39	TRANSISTOR	DTC323TK			
Q604	8-729-015-39	TRANSISTOR	DTC323TK			
		< RESISTOR >				
R101	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R102	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R103	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R105	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R107	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R109	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R111	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R201	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R202	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R203	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R204	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R205	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R206	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R207	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R208	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R209	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R210	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R211	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R212	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R213	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R214	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R219	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R301	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R302	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R303	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	
R304	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R306	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R307	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R308	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R309	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R310	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R311	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R313	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R314	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R315	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R316	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R401	1-216-033-00	METAL CHIP	220	5%	1/10W	
R402	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R403	1-216-033-00	METAL CHIP	220	5%	1/10W	
R501	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R502	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R503	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R504	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R505	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R601	1-216-041-00	METAL CHIP	470	5%	1/10W	
R603	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R604	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R605	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R606	1-216-049-11	METAL GLAZE	1K	5%	1/10W	
R607	1-216-685-11	METAL CHIP	27K	0.5%	1/10W	
R608	1-216-685-11	METAL CHIP	27K	0.5%	1/10W	
R609	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R611	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R612	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R613	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R614	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R615	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R616	1-216-270-00	METAL GLAZE	1M	5%	1/8W	
		< VARIABLE RESISTOR >				
RV201	1-241-225-11	RES, ADJ, METAL GRAZE 22K				
RV202	1-225-412-11	RES, VAR, SLIDE 10K (ELEVATOR LINER POSITION SENSOR)				
		< SWITCH >				
SW201	1-762-455-21	SWITCH, PUSH (1 KEY) (MAGAZINE EJECT END DETECT)				
SW202	1-762-455-21	SWITCH, PUSH (1 KEY) (MAGAZINE IN/OUT DETECT)				
SW301	1-571-532-21	SWITCH, TACTIL (⏏)				
		< THERMISTOR >				
TH201	1-810-510-21	THERMISTOR NTH5G35A472K01TE				
		< VIBRATOR >				
X201	1-767-261-21	VIBRATOR, CERAMIC (8MHz)				
X501	1-767-510-11	VIBRATOR, CERAMIC (10MHz)				
X601	1-767-366-21	VIBRATOR, CERAMIC (16MHz)				
**********						
*	A-3309-786-A	RF BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C10	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C12	1-113-500-11	TANTAL. CHIP	100uF	20%	10V	
C13	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C14	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C15	1-162-957-11	CERAMIC CHIP	220PF	5%	50V	
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	

RF

Ref. No.	Part No.	Description				Remark
C17	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C18	1-111-253-11	TANTAL. CHIP	100uF	20%	6.3V	
C19	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C21	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C22	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C23	1-113-682-11	TANTAL. CHIP	33uF	20%	10V	
C24	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C25	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C27	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C28	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	
C29	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C31	1-113-987-11	TANTAL. CHIP	4.7uF	20%	25V	
C32	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	
C33	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C35	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V	
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C37	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C38	1-104-913-11	TANTAL. CHIP	10uF	20%	16V	
C39	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C40	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C43	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C53	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C54	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C55	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V	
C56	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C57	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C58	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C59	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C60	1-104-914-11	TANTAL. CHIP	22uF	20%	16V	
		< CONNECTOR >				
CNJ11	1-778-776-21	CONNECTOR, FPC 17P				
CNJ12	1-778-777-21	CONNECTOR, FPC 26P				
CNP11	1-580-055-21	PIN, CONNECTOR 2P				
CNP51	1-580-055-21	PIN, CONNECTOR 2P				
CNP52	1-580-055-21	PIN, CONNECTOR 2P				
CNP53	1-580-055-21	PIN, CONNECTOR 2P				
		< IC >				
IC11	8-752-080-62	IC CXA1992AR				
IC51	8-759-071-79	IC BA6297AFP				
IC52	8-759-040-83	IC BA6287F				
		< TRANSISTOR >				
Q11	8-729-141-48	TRANSISTOR 2SB624-BV345				

Ref. No.	Part No.	Description				Remark
		< RESISTOR >				
R11	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R12	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R13	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R14	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R16	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R17	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R18	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R22	1-216-857-11	METAL CHIP	1M	5%	1/16W	
R25	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R26	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R27	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R28	1-216-295-00	CONDUCTOR, CHIP		(2012)		
R30	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R31	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	
R32	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R33	1-216-158-00	METAL GLAZE	22	5%	1/8W	
R34	1-216-855-11	METAL CHIP	680K	5%	1/16W	
R35	1-216-835-11	METAL CHIP	15K	5%	1/16W	
R36	1-216-836-11	METAL CHIP	18K	5%	1/16W	
R37	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R38	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R39	1-216-847-11	METAL CHIP	150K	5%	1/16W	
R40	1-218-273-11	METAL GLAZE	510K	5%	1/16W	
R41	1-216-839-11	METAL CHIP	33K	5%	1/16W	
R42	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R43	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R44	1-216-846-11	METAL CHIP	120K	5%	1/16W	
R45	1-216-837-11	METAL CHIP	22K	5%	1/16W	
R46	1-216-847-11	METAL CHIP	150K	5%	1/16W	
R47	1-216-834-11	METAL CHIP	12K	5%	1/16W	
R48	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R49	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R50	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R51	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R52	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R55	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R56	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R57	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R58	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R59	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R60	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R61	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R62	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R63	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R64	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R65	1-216-073-00	METAL CHIP	10K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV14	1-238-091-11	RES, ADJ, CERMET	22K			

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
SW11	1-762-946-11	SWITCH, PUSH (1 KEY) (LOAD IN)	
SW12	1-762-946-11	SWITCH, PUSH (1 KEY) (LOAD OUT)	
**********			
*	1-664-104-11	SW BOARD ********	
		< SWITCH >	
SW1	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)	

MEMO

CDX-805

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

SUPPLEMENT-2

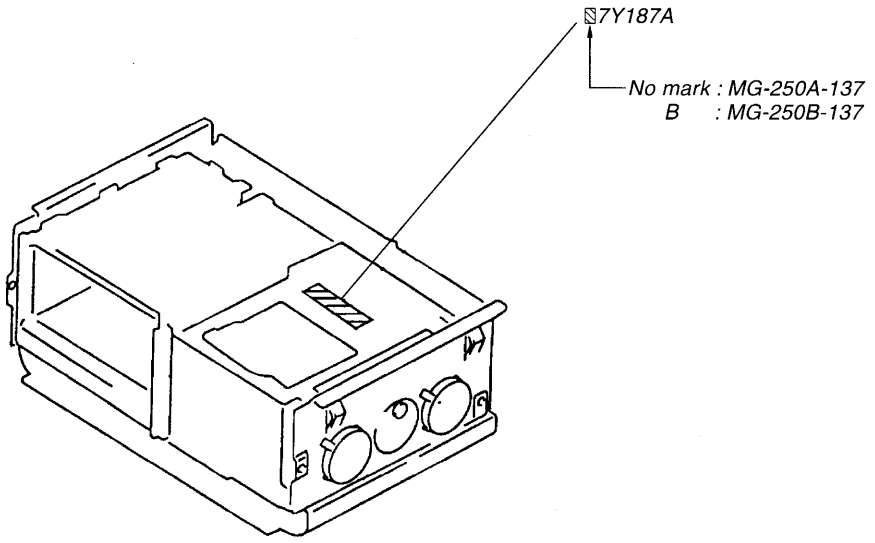
File this supplement with the service manual.

Subject: Mechanism Deck Modification (MG-250B-137)

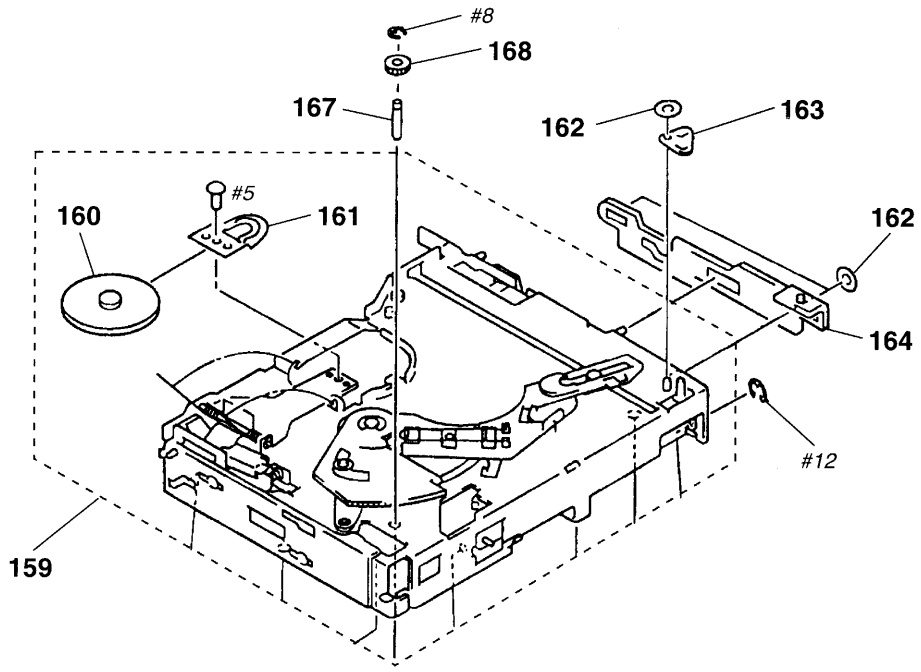
(ENG-98001)

The mechanism deck was changed from MG-250A-137 to MG-250B-137,
This supplement contains only a difference parts.

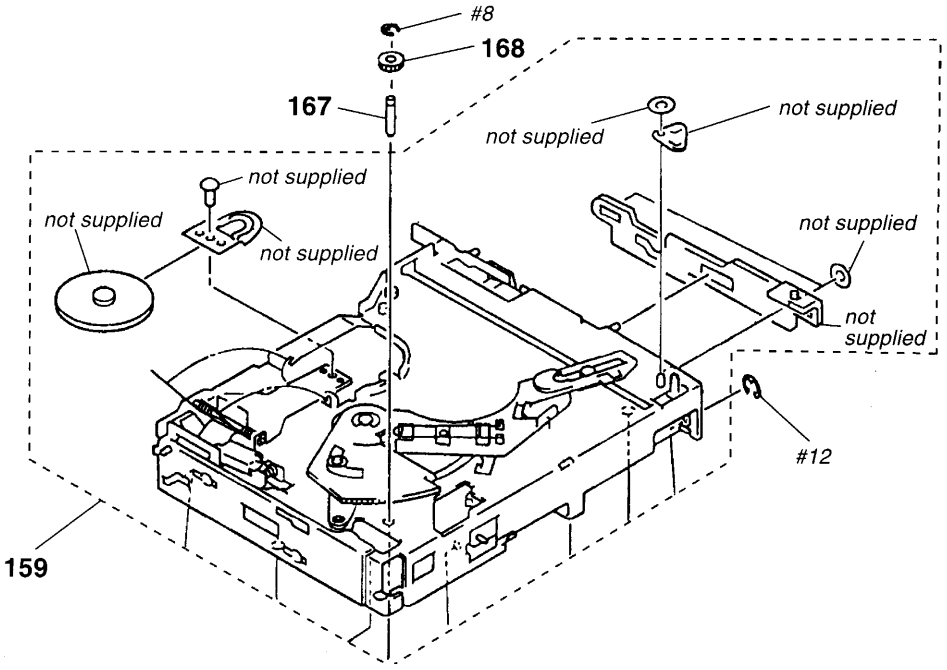
• New / Former Discrimination



• Difference Parts

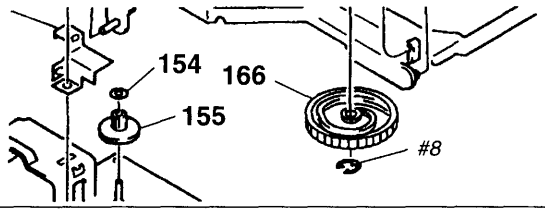
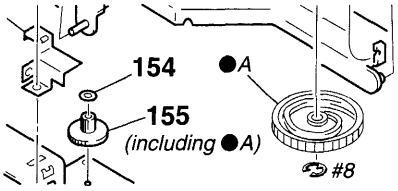
Page	Former (MG-250A-137)
41	

New (MG-250B-137)



Former (MG-250A-137)				New (MG-250B-137)			
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
159	A-3228-939-A	MAIN ASSY, CHASSIS (ELV)		159	A-3290-155-A	MAIN ASSY, CHASSIS (EVT)	
160	3-010-242-01	RETAINER (DISC)		160			
* 161	3-010-243-01	BRACKET (CP)		161			
162	3-736-073-01	SLIDER, POLYETHYLENE		162			
163	3-010-251-01	ARM (CONVERSION AB)		163			
* 164	X-3373-232-1	LEVER (LOCK 3) ASSY		164			

• Items marked "*" are not stocked since they are seldom required for routine service.
Some delay should be anticipated when ordering these items.

Page	Former (MG-250A-137)	New (MG-250B-137)
41		

Ref. No.	Part No.	Description	Remark
155	3-010-248-01	GEAR (WORM LOAD 1)	
166	X-3373-552-1	GEAR (LOAD 1) ASSY	

Ref. No.	Part No.	Description	Remark
155	X-3375-496-1	GEAR (L) ASSY	
●A	included 155		

Page	Former (MG-250A-137)			New (MG-250B-137)			
46	IC11	8-752-080-62	IC CXA1992AR	IC11	8-752-082-14	IC CXA1992BR	

MEMO

CDX-805

SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

SUPPLEMENT-3

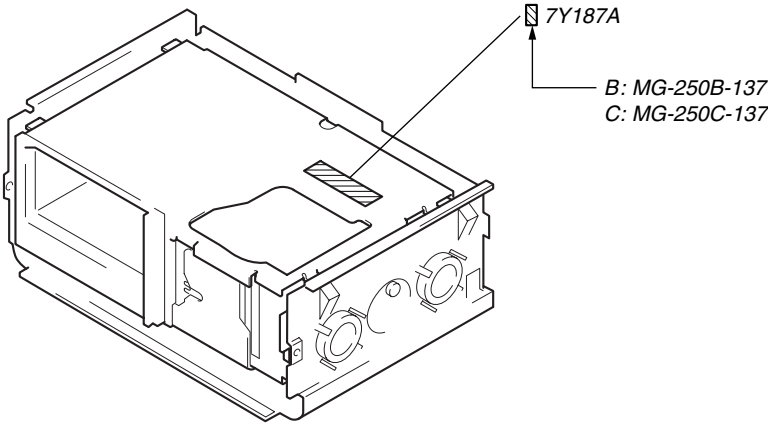
File this supplement with the service manual.

Subject: Mechanism Deck Modification (MG-250C-137)

(ENG-98014)

The mechanism deck was changed from MG-250B-137 to MG-250C-137. At the same time, main, jack and digital out boards were been changed. This supplement contains only a new type mechanism deck, main, jack and digital out boards.

1. NEW/FORMER DISCRIMINATION



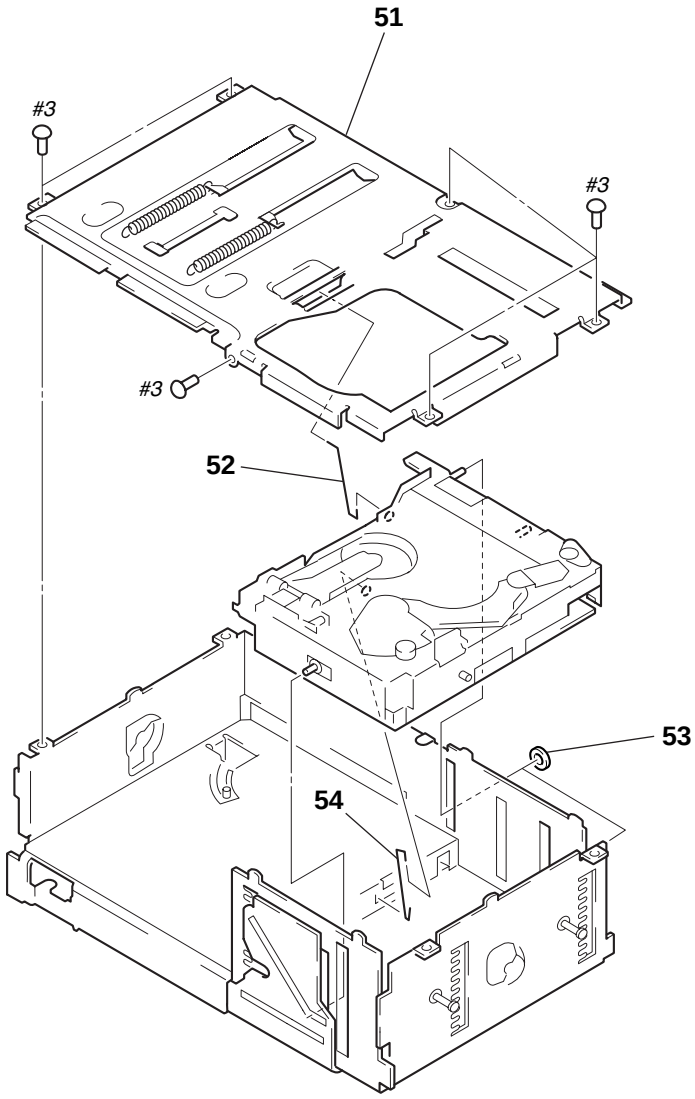
2. EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

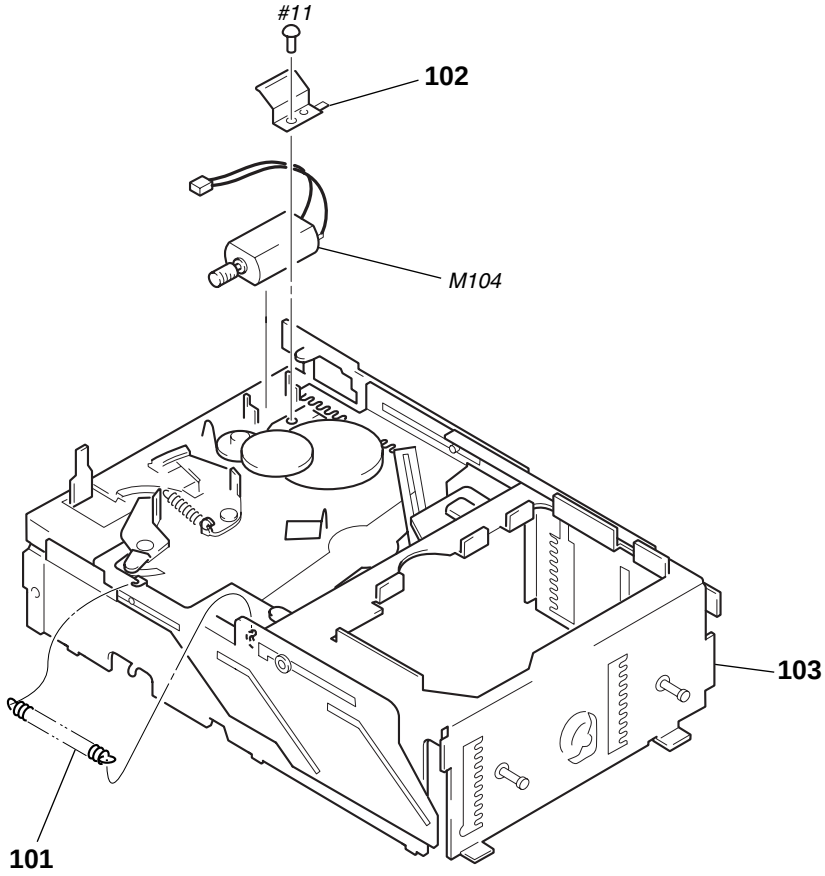
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(2) MECHANISM DECK SECTION-1 (MG-250C-137)



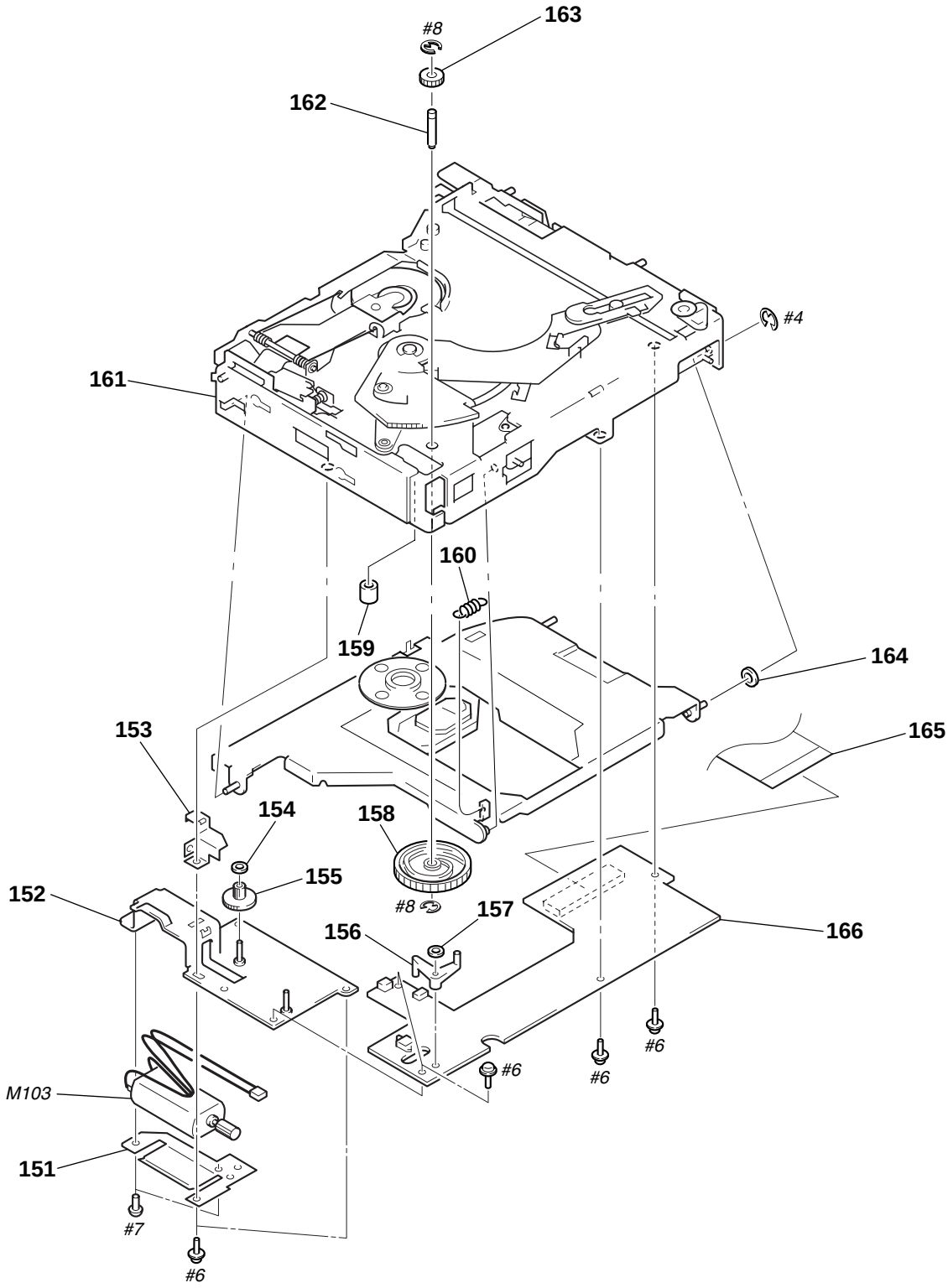
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3375-497-1	CHASSIS (U) SUB ASSY		53	4-965-759-01	WASHER, POLYETHYLENE	
52	3-024-161-01	SPRING (SUT)		54	3-011-997-01	SPRING (STOPPER. LOWER)	

(3) MECHANISM DECK SECTION-2 (MG-250C-137)



Ref. No.	Part No.	Description	Remark
101	3-024-170-01	SPRING (SB), TENSION	
* 102	3-024-172-01	BRACKET (EVM)	
103	X-3375-498-1	CHASSIS (D) SUB ASSY	
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)	

(4) MECHANISM DECK SECTION-3 (MG-250C-137)



Ref. No.	Part No.	Description	Remark
* 151	3-024-150-01	RETAINER (CHM)	
* 152	X-3375-445-1	BRACKET (CHM) ASSY	
153	3-010-270-01	COVER (CHM)	
154	3-321-813-01	WASHER, COTTER POLYETHYLENE	
155	3-017-139-01	GEAR (WORM LOAD A)	
156	3-010-255-01	ARM (LSW)	
157	3-573-936-00	STOPPER, REEL	
158	X-3373-552-1	GEAR (LOAD 1) ASSY	
159	3-010-252-01	ROLLER (CRE)	
160	3-010-268-01	SPRING (DH), TENSION	
* 161	A-3290-194-D	CHASSIS (EVY) (MAIN) ASSY	
162	3-010-254-01	SHAFT (ROTARY PREVENTION C)	
163	3-010-253-01	GEAR (LOMINI)	
164	3-701-438-11	WASHER, 2.5	
165	1-664-627-11	MAIN FLEXIBLE BOARD	
* 166	A-3313-586-A	RF BOARD, COMPLETE	
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)	

Continued on page 13.

3. DIAGRAMS

3-1. PRINTED WIRING BOARDS – MAIN Section –

• **Semiconductor Location**

Ref. No.	Location
D301	F-12
D302	F-11
D303	F-12
D304	F-10
D305	F-10
D306	G-12
D307	G-12
D308	G-12
D309	F-10
D310	F-11
D311	H-12
D312	F-11
D313	D-10
D314	G-11
D501	G-14
D502	I-13
IC101	C-14
IC201	E-15
IC202	E-16
IC301	G-11
IC302	F-13
IC303	F-25
IC304	H-12
IC305	E-25
IC306	F-14
IC307	D-12
IC401	B-13
IC402	D-13
IC403	C-12
IC501	H-13
IC502	H-14
IC503	G-14
IC601	E-13
IC602	E-12
IC603	D-14
IC604	D-13
IC801	G-3
Q201	F-16
Q301	G-12
Q302	G-12
Q303	I-22
Q304	C-10
Q305	D-24
Q601	D-11
Q602	D-11
Q603	E-11
Q604	D-11

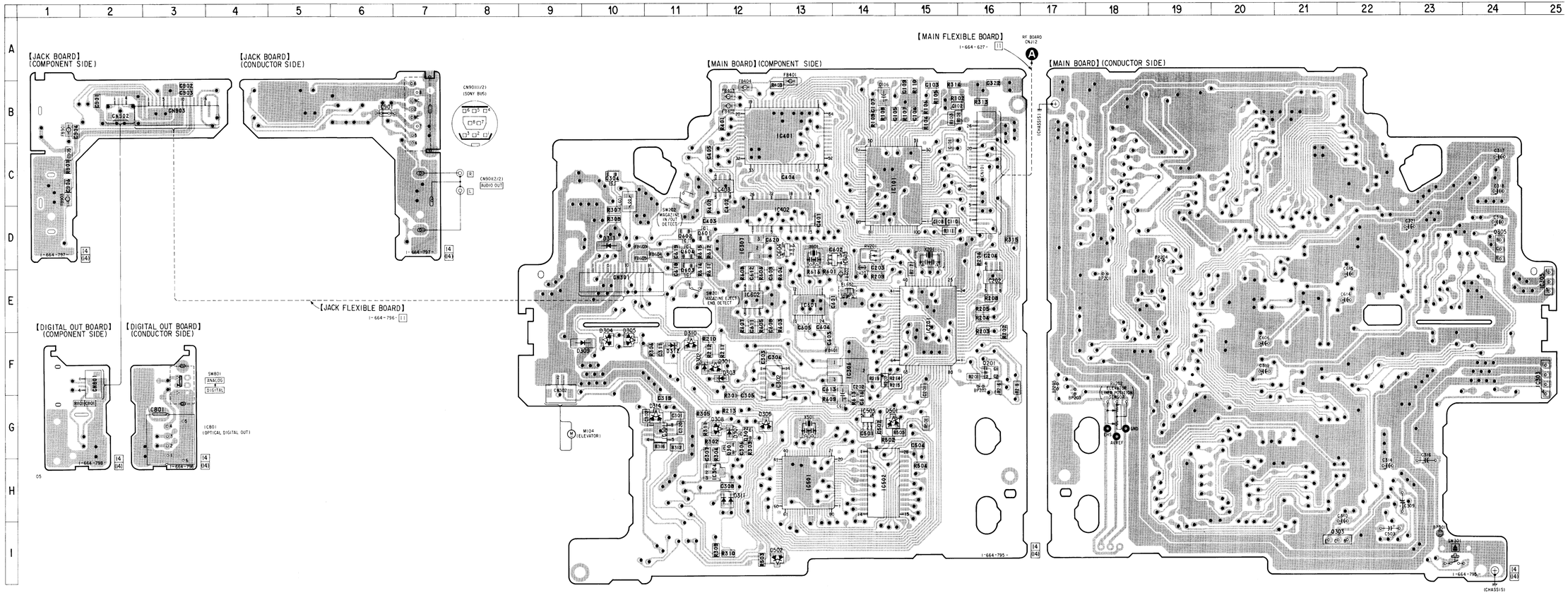
Note on Printed Wiring Board:

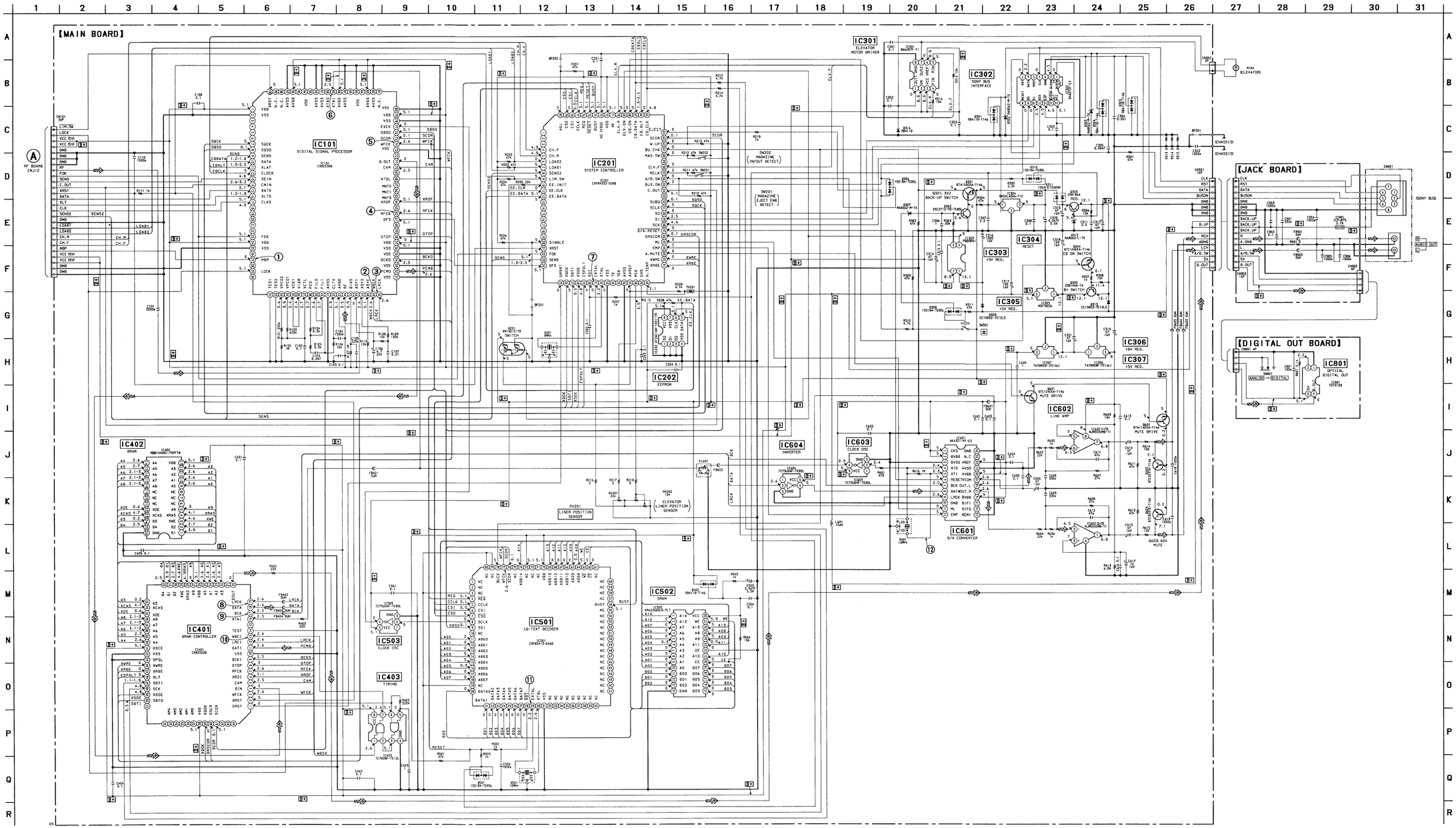
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- △ : internal component.
- ▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.



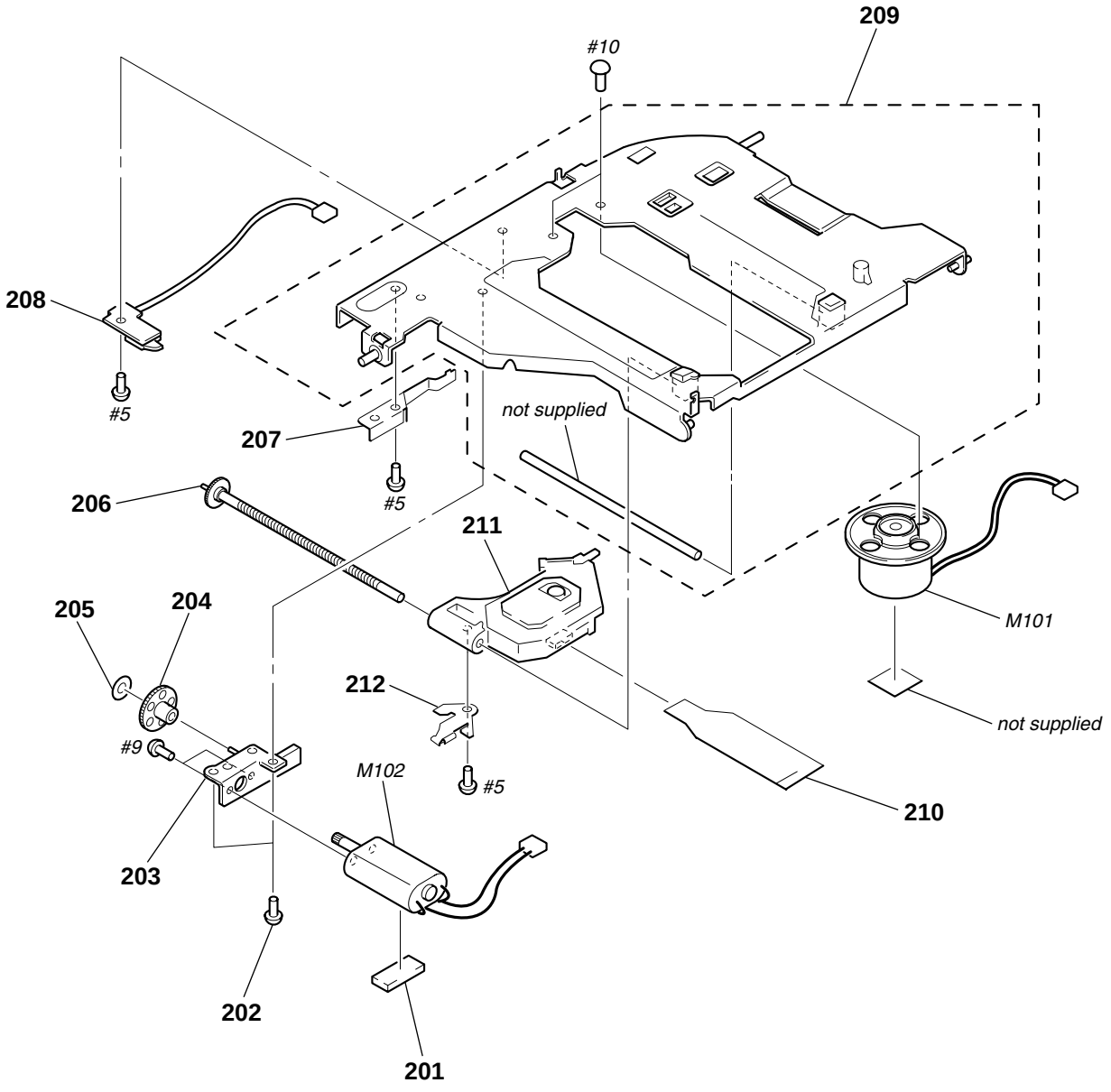


Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from CD changer controller.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD
  ⇨ : digital out

Continued from page 4.

(5) MECHANISM DECK SECTION-4 (MG-250C-137)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
201	3-911-215-02	SHEET (LEAD RETAINER)	
202	3-920-362-01	SCREW (ESCUTCHEON)	
203	X-3373-229-1	BASE (SLED) ASSY	
204	3-010-258-01	GEAR (SLED MID)	
205	3-573-936-00	STOPPER, REEL	
206	A-3291-958-A	SHAFT (SLED) ASSY	
207	3-010-263-01	DETENT (SHAFT THRUST)	
* 208	1-664-104-11	SW BOARD	
* 209	A-3301-077-A	BASE (OPT) (J) ASSY	
210	1-664-626-11	OP FLEXIBLE BOARD	
⚠211	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP	
212	3-010-262-01	DETENT (SLED)	
M101	A-3291-956-A	MOTOR SUB ASSY, SPINDLE	
M102	A-3291-955-A	MOTOR SUB ASSY, SLED	

4. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-664-798-14	DIGITAL OUT BOARD			
		**********			
*	3-011-205-01	BRACKET (LIGHT)			
		< CAPACITOR >			
C801	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CN801	1-770-621-21	PIN, CONNECTOR 4P			
		< IC >			
IC801	8-749-923-53	IC TOTX193			
		< RESISTOR >			
R801	1-218-272-11	RES, CHIP	5.1K	5%	1/16W
		< SWITCH >			
SW801	1-571-478-11	SWITCH, SLIDE (ANALOG/DIGITAL)			
**********					
*	1-664-797-14	JACK BOARD			
		**********			
		< CAPACITOR >			
C901	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C903	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C904	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C905	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C906	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN901	1-779-077-11	PLUG, CONNECTOR (SONY BUS, AUDIO OUT)			
CN902	1-770-621-21	PIN, CONNECTOR 4P			
CN903	1-779-321-11	CONNECTOR, FPC 16P			
		< FERRITE BEAD >			
FB901	1-500-445-21	FERRITE	0uH		
FB903	1-500-445-21	FERRITE	0uH		
		< IC LINK >			
IC901	1-532-686-21	LINK, IC			
		< RESISTOR >			
R901	1-216-295-00	SHORT	0		
**********					
	A-3313-975-A	MAIN BOARD, COMPLETE			
		**********			
*	3-022-694-01	HOLDER (TR3)			
		< CAPACITOR >			
C101	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C103	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C104	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C105	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C106	1-135-214-21	TANTAL. CHIP	4.7uF	20%	20V
C107	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C110	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C202	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C203	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C204	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C301	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C302	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C303	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C304	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C305	1-163-029-11	CERAMIC CHIP	0.0047uF		50V
C306	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C307	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C308	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C309	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C310	1-104-953-11	ELECT	47uF	20%	16V
C311	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C312	1-115-650-11	ELECT	47uF	20%	16V
C314	1-104-953-11	ELECT	47uF	20%	16V
C315	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C316	1-115-466-11	ELECT	1000uF	20%	16V
C317	1-115-651-11	ELECT	100uF	20%	16V

Ref. No.	Part No.	Description			Remark
C318	1-115-651-11	ELECT	100uF	20%	16V
C319	1-104-953-11	ELECT	47uF	20%	16V
C320	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C321	1-115-650-11	ELECT	47uF	20%	16V
C322	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C401	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C404	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C405	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C501	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C502	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C503	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C504	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C601	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C602	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C603	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C604	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C605	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C606	1-104-953-11	ELECT	47uF	20%	16V
C608	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C609	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C611	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C612	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C613	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C614	1-115-650-11	ELECT	47uF	20%	16V
C615	1-115-650-11	ELECT	47uF	20%	16V
C616	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C617	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C618	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C619	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C620	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
		< CONNECTOR >			
CN101	1-770-351-11	CONNECTOR, FPC 26P			
CN301	1-774-679-21	CONNECTOR, FPC 16P			
CN302	1-580-055-21	PIN, CONNECTOR 2P			
		< DIODE >			
D301	8-719-975-40	DIODE RB411D			
D302	8-719-422-64	DIODE MA8062-M			
D303	8-719-422-64	DIODE MA8062-M			
D304	8-719-975-40	DIODE RB411D			
D305	8-719-975-40	DIODE RB411D			
D306	8-719-801-78	DIODE 1SS184			
D307	8-719-422-64	DIODE MA8062-M			
D308	8-719-801-78	DIODE 1SS184			
D309	8-719-210-33	DIODE EC10DS2			
D310	8-719-801-78	DIODE 1SS184			
D311	8-719-038-48	DIODE 1SS319 (TE85R)			
D312	8-719-422-62	DIODE MA8062-L-TX			
D313	8-719-210-33	DIODE EC10DS2			
D314	8-719-975-40	DIODE RB411D			
D501	8-719-801-78	DIODE 1SS184			
D502	8-719-975-40	DIODE RB411D			

Ref. No.	Part No.	Description			Remark
		< FERRITE BEAD >			
FB401	1-500-445-21	FERRITE 0uH			
FB402	1-500-445-21	FERRITE 0uH			
FB403	1-500-445-21	FERRITE 0uH			
FB404	1-500-445-21	FERRITE 0uH			
FB601	1-500-445-21	FERRITE 0uH			
FB602	1-414-813-11	FERRITE 0uH			
FB603	1-500-445-21	FERRITE 0uH			
FB604	1-500-445-21	FERRITE 0uH			
FB605	1-500-445-21	FERRITE 0uH			
		< FILTER >			
FL601	1-239-400-11	FILTER, CHIP EMI			
		< IC >			
IC101	8-752-384-15	IC CXD2530Q			
IC201	8-752-898-74	IC CXP84332-099Q			
IC202	8-759-253-82	IC AT24C16N-10SI-TR			
IC301	8-759-040-83	IC BA6287F			
IC302	8-759-444-86	IC BA8272F-E2			
IC303	8-759-054-12	IC PQ09RA1			
IC304	8-759-443-41	IC RH5VL40AA-T1C			
IC305	8-759-231-53	IC TA7805S			
IC306	8-759-284-66	IC TA78M08F (TE16L)			
IC307	8-759-284-63	IC TA78M05F (TE16L)			
IC401	8-752-374-09	IC CXD2522Q			
IC402	8-759-427-15	IC MB814400C-70PFTN			
IC403	8-759-242-76	IC TC7W08F			
IC501	8-752-898-77	IC CXP83413-046Q			
IC502	8-759-497-29	IC KM62256DLG-7LT			
IC503	8-759-243-19	IC TC7SU04F			
IC601	8-759-455-21	IC AK4321-VF-E2			
IC602	8-759-064-92	IC NJM5532M-D			
IC603	8-759-243-19	IC TC7SU04F			
		< COIL >			
L601	1-410-381-11	INDUCTOR CHIP 10uH			
		< TRANSISTOR >			
Q201	8-729-020-67	TRANSISTOR XN1A312-TX			
Q301	8-729-027-31	TRANSISTOR DTA124EKA-T146			
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q303	8-729-016-11	TRANSISTOR 2SD1507M			
Q304	8-729-901-00	TRANSISTOR DTC124EK			
Q305	8-729-016-83	TRANSISTOR 2SB1446			
Q601	8-729-901-00	TRANSISTOR DTC124EK			
Q602	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q603	8-729-015-39	TRANSISTOR DTC323TK			
Q604	8-729-015-39	TRANSISTOR DTC323TK			
		< RESISTOR >			
R101	1-216-105-00	RES, CHIP	220K	5%	1/10W
R102	1-216-121-00	RES, CHIP	1M	5%	1/10W
R103	1-216-113-00	METAL CHIP	470K	5%	1/10W
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R105	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R107	1-216-121-00	RES, CHIP	1M	5%	1/10W
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-097-00	RES, CHIP	100K	5%	1/10W
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W
R111	1-216-049-11	RES, CHIP	1K	5%	1/10W
R201	1-216-089-00	RES, CHIP	47K	5%	1/10W
R202	1-216-089-00	RES, CHIP	47K	5%	1/10W
R203	1-216-089-00	RES, CHIP	47K	5%	1/10W
R204	1-216-089-00	RES, CHIP	47K	5%	1/10W
R205	1-216-081-00	METAL CHIP	22K	5%	1/10W
R206	1-216-089-00	RES, CHIP	47K	5%	1/10W
R207	1-216-821-11	METAL CHIP	1K	5%	1/16W
R208	1-216-089-00	RES, CHIP	47K	5%	1/10W
R209	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R210	1-216-089-00	RES, CHIP	47K	5%	1/10W
R211	1-216-089-00	RES, CHIP	47K	5%	1/10W
R212	1-216-089-00	RES, CHIP	47K	5%	1/10W
R213	1-216-089-00	RES, CHIP	47K	5%	1/10W
R214	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R216	1-216-295-00	SHORT	0		
R217	1-216-295-00	SHORT	0		
R218	1-216-295-00	SHORT	0		
R219	1-216-821-11	METAL CHIP	1K	5%	1/16W
R301	1-216-089-00	RES, CHIP	47K	5%	1/10W
R302	1-216-089-00	RES, CHIP	47K	5%	1/10W
R303	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R304	1-216-089-00	RES, CHIP	47K	5%	1/10W
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R306	1-216-077-00	METAL CHIP	15K	5%	1/10W
R307	1-216-049-11	RES, CHIP	1K	5%	1/10W
R308	1-216-073-00	METAL CHIP	10K	5%	1/10W
R309	1-216-089-00	RES, CHIP	47K	5%	1/10W
R310	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R311	1-216-089-00	RES, CHIP	47K	5%	1/10W
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W
R313	1-216-295-00	SHORT	0		
R314	1-216-295-00	SHORT	0		
R315	1-216-295-00	SHORT	0		
R316	1-216-073-00	METAL CHIP	10K	5%	1/10W
R401	1-216-033-00	METAL CHIP	220	5%	1/10W
R402	1-216-105-00	RES, CHIP	220K	5%	1/10W
R403	1-216-033-00	METAL CHIP	220	5%	1/10W
R501	1-216-089-00	RES, CHIP	47K	5%	1/10W
R502	1-216-049-11	RES, CHIP	1K	5%	1/10W
R503	1-216-049-11	RES, CHIP	1K	5%	1/10W
R504	1-216-073-00	METAL CHIP	10K	5%	1/10W
R505	1-216-049-11	RES, CHIP	1K	5%	1/10W
R601	1-216-041-00	METAL CHIP	470	5%	1/10W
R603	1-216-081-00	METAL CHIP	22K	5%	1/10W
R604	1-216-081-00	METAL CHIP	22K	5%	1/10W
R605	1-216-049-11	RES, CHIP	1K	5%	1/10W
R606	1-216-049-11	RES, CHIP	1K	5%	1/10W
R607	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R608	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R609	1-216-073-00	METAL CHIP	10K	5%	1/10W
R611	1-216-089-00	RES, CHIP	47K	5%	1/10W
R612	1-216-089-00	RES, CHIP	47K	5%	1/10W
R613	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R614	1-216-025-00	RES, CHIP	100	5%	1/10W
R615	1-216-025-00	RES, CHIP	100	5%	1/10W
R616	1-216-270-00	RES, CHIP	1M	5%	1/8W

< VARIABLE RESISTOR >

RV201	1-241-225-11	RES, ADJ, METAL GRAZE 22K
RV202	1-225-412-11	RES, VAR SLIDE 10K (ELEVATOR LINER POSITION SENSOR)

< SWITCH >

SW201	1-762-455-21	SWITCH, PUSH (1 KEY) (MAGAZINE EJECT END DETECT)
SW202	1-762-455-21	SWITCH, PUSH (1 KEY) (MAGAZINE IN/OUT DETECT)
SW301	1-571-532-21	SWITCH, TACTIL (⏏)

< THERMISTOR >

TH201	1-810-510-21	THERMISTOR NTH5G35A472K01TE

< VIBRATOR >

X201	1-767-261-21	VIBRATOR, CERAMIC (8MHz)
X501	1-767-510-11	VIBRATOR, CERAMIC (10MHz)
X601	1-767-366-41	VIBRATOR, CERAMIC (16MHz)

****

MISCELLANEOUS
****

165	1-664-627-11	MAIN FLEXIBLE BOARD
210	1-664-626-11	OP FLEXIBLE BOARD
⚠211	8-820-010-05	OPTICAL PICK-UP KSS-521A/J2RP
M101	A-3291-956-A	MOTOR SUB ASSY, SPINDLE
M102	A-3291-955-A	MOTOR SUB ASSY, SLED
M103	A-3291-953-A	MOTOR ASSY, EL (CHUCKING)
M104	A-3301-123-A	ELJ MOTOR ASSY (ELEVATOR)

****

****
HARDWARE LIST
****

#3	7-685-781-09	SCREW +PTT 2X4 (S)
#4	7-624-104-04	STOP RING 2.0, TYPE-E
#5	7-627-554-07	SCREW, PRECISION +P 2X2.2
#6	7-628-253-00	SCREW +PS 2X4
#7	7-627-553-27	SCREW, PRECISION +P 2X2.5
#8	7-624-102-04	STOP RING 1.5, TYPE-E
#9	7-627-850-28	SCREW, PRECISION +P 1.4X3
#10	7-627-000-00	SCREW, PRECISION +P 1.7X2.2 TYPE3
#11	7-685-780-09	SCREW +PTT 2X3 (S)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.1	2001.08	Correction-1 is included.
1.0	1998.10	Supplement-3
	1998.04	Correction-1
	1998.02	Supplement-2
	1997.07	Supplement-1
	1997.01	New